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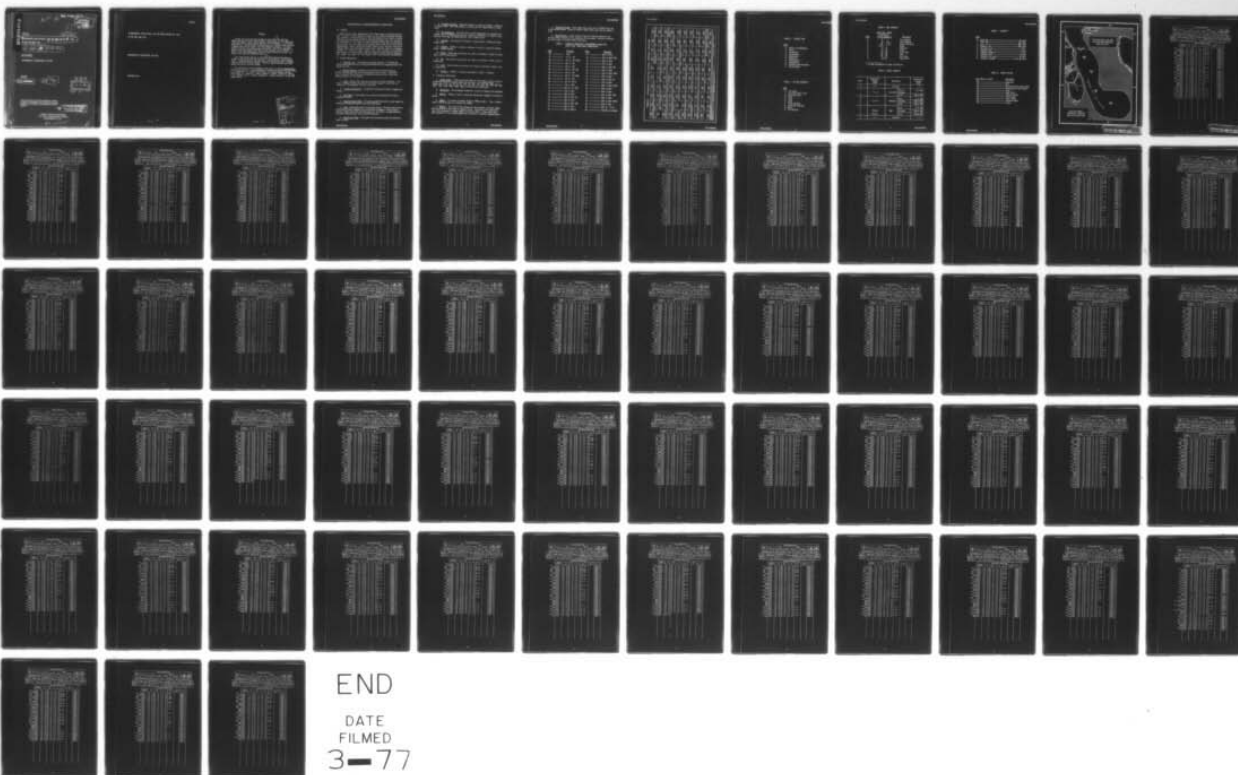
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OCEANOGRAPHIC STATION DATA, USS SAN PABLO CRUISE NUMBER 31947 0--ETC(U)  
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OF MAY AND JUNE 1962

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OCEANOGRAPHIC STATION DATA, USS SAN PABLO CRUISE NO. 31947  
OF MAY AND JUNE 1962

OCEANOGRAPHIC DEVELOPMENT DIVISION

SEPTEMBER 1962

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## PREFACE

During the period 20 May through 24 June 1962, the USS SAN PABLO (AGS-30) collected oceanographic observations in the Tongue of the Ocean (TOTO), Exuma Sound, and east of the Bahamas. In the TOTO, observations included 3-hourly Nansen casts at a 7-day anchor station, 4 Nansen casts while adrift, and 100 biological samples. In Exuma Sound 57 bottom core samples were collected. East of the Bahamas 2 Nansen casts were made, and 8 bottom core samples were collected. A total of 474 bathythermograms were collected during the survey. All Nansen cast data are presented herein.

The 7-day anchor station in the TOTO was occupied from 2200 on 20 May to 1900 on 27 May and resulted in 56 successive single Nansen casts. Sampling depths, representing 19 different horizons, extended from the surface to 1,800 meters. Salinity determinations were made aboard ship on a salinity bridge.

The following civilian personnel from the U. S. Naval Oceanographic Office were active in the oceanographic program aboard the USS SAN PABLO: F. M. Daugherty, Jr. (Senior Scientist), A. Russell Mooney, Charles Ostericher, Jr., Charles L. Davis, Roswell F. Busby, Richard F. Rooney, J. H. Hoffman, Carl A. Justus, Spurgeon C. Crosby, Harold E. Grimm, and Kemper Reece.

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## EXPLANATION OF OCEANOGRAPHIC STATION DATA

## A. General

Each of the items appearing on the data pages is explained below. The vertical arrows shown in some of the column headings indicate the location of decimal points. The horizontal arrow next to a depth indicates the first depth of the second oceanographic cast. The presence of asterisks to the right of data indicates those data are doubtful; hence, they were not used in the construction of the curve from which interpolated values (standard depth values) were derived. Observed values which were obviously invalid were omitted entirely. A dagger symbol (†) indicates data which have been machine interpolated over three or more depths. When the dagger symbol appears opposite the depth, all data at that depth have been machine interpolated.

## B. Surface Observations

1. NODC Ref. No. This number is arbitrarily assigned. It identifies the cruise and provides a means of sorting from the IBM files all cards pertaining to that particular cruise.
2. Station Number. Stations are normally numbered consecutively, starting with one at the beginning of each cruise. Therefore, for a complete identification of a particular station, both cruise and station number are necessary.
3. Date. Month, day, and year are given in Arabic numerals. The hour is Greenwich Mean Time and is that hour nearest to the time of release of the messenger for the first cast.
4. Latitude and Longitude. The position of the station is given in degrees and minutes.
5. Sonic Depth. Sonic Depth is the uncorrected sounding for the station, recorded in meters.
6. Maximum Sample Depth. The maximum depth from which a water sample was obtained at the station is given to the nearest 100 meters.
7. Wind. Wind speed is given in meters per second. Direction from which the wind blows is coded in degrees true to the nearest ten degrees. The last zero is omitted. North is 36 on this scale and calm is 0. See Table 1, Compass Direction Conversion Table for Wind, Sea, and Swell Directions.
8. Anemometer Height. The height of the anemometer above the waterline is given in meters.



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9. Barometric Pressure. Barometric pressure is coded in millibars, neglecting the 900 or 1000. Thus, 996 millibars is coded as 96 and 1008 millibars is coded as 08.

10. Air Temperature. Dry bulb and wet bulb temperatures are entered to the nearest tenth of a degree (Centigrade). A negative temperature is coded by dropping the minus sign and adding 50; thus  $-10^{\circ}$  is coded as 60.

11. Humidity. The percent of humidity is coded directly, 100 percent being coded as 99.

12. Weather. Weather is coded as indicated in Table 2, Numerical Weather Codes - Present Weather.

13. Cloud. Cloud type and amount are coded as indicated in Tables 3, Cloud Type, and 4, Cloud Amount.

14. Sea. Sea direction and amount are coded as indicated in Tables 1 and 5, respectively.

15. Swell. Swell direction and amount are coded as indicated in Tables 1 and 6, respectively.

16. Visibility. Visibility is coded as indicated in Table 7, Visibility.

C. Subsurface Observations

1. Sample Depth. Observed (actual) depth of each sample is given in meters. Interpolated values at standard depths are also given. The standard depths, in meters, are: 0, 10, 20, 30, 50, 75, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 2000, 2500, 3000, and thence every 1000 meters.

2. Temperature. The Centigrade temperature is given in degrees and hundredths.

3. Salinity. Salinity is given in parts per thousand (by weight) to two decimal places.

4. Sigma-t. To convert to density divide by 1000 and add 1. Thus, a sigma-t value of 22.35 converts to a density of 1.02235.

5. Delta-D. The values in the columns are the anomalies of dynamic depths from the surface to each level in dynamic meters. Each entry is the cumulative sum of the anomalies of dynamic depth of the layer above. These values have been computed for the standard depths only, and serve to identify computed points.

6. Dissolved Oxygen. These values when given are in milliliters per liter to two decimal places. Values of 10.00 or above rarely occur and are coded as 9.99.

7. Sound Velocity. Sound velocity is given in feet per second to one decimal place, corrected for pressure at each depth. Wilson's equation has been used to compute sound velocities.

TABLE 1. COMPASS DIRECTION CONVERSION TABLE FOR WIND, SEA, AND SWELL DIRECTIONS

| <u>Code</u> | <u>Direction</u>       | <u>Code</u> | <u>Direction</u>          |
|-------------|------------------------|-------------|---------------------------|
| 00          | ----- Calm             | 19          | ----- 185° to 194°        |
| 01          | ----- 5° to 14°        | 20          | ----- 195° to 204° SSW    |
| 02          | ----- 15° to 24° NNE   | 21          | ----- 205° to 214°        |
| 03          | ----- 25° to 34°       | 22          | ----- 215° to 224°        |
| 04          | ----- 35° to 44°       | 23          | ----- 225° to 234° SW     |
| 05          | ----- 45° to 54° NE    | 24          | ----- 235° to 244°        |
| 06          | ----- 55° to 64°       | 25          | ----- 245° to 254° WSW    |
| 07          | ----- 65° to 74° ENE   | 26          | ----- 255° to 264°        |
| 08          | ----- 75° to 84°       | 27          | ----- 265° to 274° W      |
| 09          | ----- 85° to 94° E     | 28          | ----- 275° to 284°        |
| 10          | ----- 95° to 104°      | 29          | ----- 285° to 294° WNW    |
| 11          | ----- 105° to 114° ESE | 30          | ----- 295° to 304°        |
| 12          | ----- 115° to 124°     | 31          | ----- 305° to 314°        |
| 13          | ----- 125° to 134°     | 32          | ----- 315° to 324° NW     |
| 14          | ----- 135° to 144° SE  | 33          | ----- 325° to 334°        |
| 15          | ----- 145° to 154°     | 34          | ----- 335° to 344° NNW    |
| 16          | ----- 155° to 164° SSE | 35          | ----- 345° to 354°        |
| 17          | ----- 165° to 174°     | 36          | ----- 355° to 4° N        |
| 18          | ----- 175° to 184° S   | 99          | ----- Variable or unknown |



TABLE 2. NUMERICAL WEATHER CODES—PRESENT WEATHER

| 00                                                                                                    | 01                                                                                               | 02                                                                              | 03                                                                                         | 04                                                                                                           | 05                                                                         | 06                                                                                   | 07                                                                                     | 08                                                                                     | 09                                                                                             |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Cloud development NOT observed or NOT observable during past hour.                                    | Clouds generally dissipating or becoming less developed during past hour.                        | State of sky on the whole unchanged during past hour.                           | Clouds generally forming or developing during past hour.                                   | Visibility reduced by smoke.                                                                                 | Haze.                                                                      | Widespread dust in suspension in air, NOT raised by wind, at time of observation.    | Dust or sand raised by wind, at time of observation.                                   | Well developed dust devil(s) within past hour.                                         | Duststorm or sand storm within sight of station during past hour.                              |
| 10                                                                                                    | 11                                                                                               | 12                                                                              | 13                                                                                         | 14                                                                                                           | 15                                                                         | 16                                                                                   | 17                                                                                     | 18                                                                                     | 19                                                                                             |
| Light fog.                                                                                            | Patches of shallow fog, but not deeper than 6 feet on land.                                      | More or less continuous fog, but not deeper than 6 feet on land.                | Lightning visible, no thunder heard.                                                       | Precipitation within sight, but NOT reaching the ground.                                                     | Precipitation within sight, reaching the ground, at distance from station. | Precipitation within sight, reaching the ground, NOT at station.                     | Thunder heard, but no precipitation at the station.                                    | Squalls within sight during past hour.                                                 | Funnel cloud(s) within sight during past hour.                                                 |
| 20                                                                                                    | 21                                                                                               | 22                                                                              | 23                                                                                         | 24                                                                                                           | 25                                                                         | 26                                                                                   | 27                                                                                     | 28                                                                                     | 29                                                                                             |
| Drizzle (NOT freezing and NOT falling as showers) during past hour, but NOT at time of observation.   | Rain (NOT freezing and NOT falling as showers) during past hour, but NOT at time of observation. | Snow (NOT falling as showers) during past hour, but NOT at time of observation. | Rain and snow (NOT falling as showers) during past hour, but NOT at time of observation.   | Freezing drizzle or freezing rain (NOT falling as showers) during past hour, but NOT at time of observation. | Showers of rain during past hour, but NOT at time of observation.          | Showers of snow, or rain and snow, during past hour, but NOT at time of observation. | Showers of hail or of hail and rain, during past hour, but NOT at time of observation. | Fog during past hour, but NOT at time of observation.                                  | Thunderstorm (with or without precipitation) during past hour, but NOT at time of observation. |
| 30                                                                                                    | 31                                                                                               | 32                                                                              | 33                                                                                         | 34                                                                                                           | 35                                                                         | 36                                                                                   | 37                                                                                     | 38                                                                                     | 39                                                                                             |
| Slight or moderate duststorm or sandstorm has decreased during past hour.                             | Slight or moderate duststorm or sandstorm has decreased during past hour.                        | Slight or moderate duststorm or sandstorm has increased during past hour.       | Severe duststorm or sandstorm has increased during past hour.                              | Severe duststorm or sandstorm has increased during past hour.                                                | Severe duststorm or sandstorm has increased during past hour.              | Slight or moderate drifting snow, generally high.                                    | Heavy drifting snow, generally high.                                                   | Slight or moderate drifting snow, generally high.                                      | Heavy drifting snow, generally high.                                                           |
| 40                                                                                                    | 41                                                                                               | 42                                                                              | 43                                                                                         | 44                                                                                                           | 45                                                                         | 46                                                                                   | 47                                                                                     | 48                                                                                     | 49                                                                                             |
| Fog at distance at time of observation, but NOT at station during past hour.                          | Fog in patches during past hour.                                                                 | Fog, sky discernible, has become thinner during past hour.                      | Fog, sky NOT discernible, has become thinner during past hour.                             | Fog, sky discernible, no appreciable change during past hour.                                                | Fog, sky NOT discernible, no appreciable change during past hour.          | Fog, sky discernible, has begun or become thicker during past hour.                  | Fog, sky NOT discernible, has begun or become thicker during past hour.                | Fog, depositing rain, sky not discernible.                                             | Fog, depositing rain, sky not discernible.                                                     |
| 50                                                                                                    | 51                                                                                               | 52                                                                              | 53                                                                                         | 54                                                                                                           | 55                                                                         | 56                                                                                   | 57                                                                                     | 58                                                                                     | 59                                                                                             |
| Intermittent drizzle (NOT freezing) slight at time of observation.                                    | Continuous drizzle (NOT freezing) slight at time of observation.                                 | Intermittent drizzle (NOT freezing) moderate at time of observation.            | Continuous drizzle (NOT freezing) moderate at time of observation.                         | Intermittent drizzle (NOT freezing), thick at time of observation.                                           | Continuous drizzle (NOT freezing), thick at time of observation.           | Slight freezing drizzle.                                                             | Moderate or thick freezing drizzle.                                                    | Drizzle and rain, moderate or heavy.                                                   | Drizzle and rain, moderate or heavy.                                                           |
| 60                                                                                                    | 61                                                                                               | 62                                                                              | 63                                                                                         | 64                                                                                                           | 65                                                                         | 66                                                                                   | 67                                                                                     | 68                                                                                     | 69                                                                                             |
| Intermittent rain (NOT freezing) slight at time of observation.                                       | Continuous rain (NOT freezing) slight at time of observation.                                    | Intermittent rain (NOT freezing) moderate at time of observation.               | Continuous rain (NOT freezing) moderate at time of observation.                            | Intermittent rain (NOT freezing), thick at time of observation.                                              | Continuous rain (NOT freezing), thick at time of observation.              | Slight freezing rain.                                                                | Moderate or heavy freezing rain.                                                       | Rain or drizzle and snow, moderate or heavy.                                           | Rain or drizzle and snow, moderate or heavy.                                                   |
| 70                                                                                                    | 71                                                                                               | 72                                                                              | 73                                                                                         | 74                                                                                                           | 75                                                                         | 76                                                                                   | 77                                                                                     | 78                                                                                     | 79                                                                                             |
| Intermittent fall of snowflakes, slight at time of observation.                                       | Continuous fall of snowflakes, slight at time of observation.                                    | Intermittent fall of snowflakes, moderate at time of observation.               | Continuous fall of snowflakes, moderate at time of observation.                            | Intermittent fall of snowflakes, heavy at time of observation.                                               | Continuous fall of snowflakes, heavy at time of observation.               | Ice needles (with or without fog).                                                   | Granular snow (with or without fog).                                                   | Isolated sterile snow crystals (with or without fog).                                  | Ice pellets (sleet, U. S. definition).                                                         |
| 80                                                                                                    | 81                                                                                               | 82                                                                              | 83                                                                                         | 84                                                                                                           | 85                                                                         | 86                                                                                   | 87                                                                                     | 88                                                                                     | 89                                                                                             |
| Slight rain shower(s).                                                                                | Moderate or heavy rain shower(s).                                                                | Violent rain shower(s).                                                         | Slight shower(s) of rain and snow mixed.                                                   | Moderate or heavy shower(s) of rain and snow mixed.                                                          | Slight snow shower(s).                                                     | Moderate or heavy snow shower(s).                                                    | Slight shower(s) of soft or small hail with or without rain and snow mixed.            | Moderate or heavy shower(s) of soft or small hail with or without rain and snow mixed. | Slight shower(s) of hail, with or without rain or snow mixed, associated with thunder.         |
| 90                                                                                                    | 91                                                                                               | 92                                                                              | 93                                                                                         | 94                                                                                                           | 95                                                                         | 96                                                                                   | 97                                                                                     | 98                                                                                     | 99                                                                                             |
| Moderate or heavy shower(s) of hail, with or without rain or snow mixed, not associated with thunder. | Slight rain at time of observation, but NOT at time of observation.                              | Moderate or heavy rain at time of observation, but NOT at time of observation.  | Slight snow or rain and snow mixed at time of observation, but NOT at time of observation. | Thunderstorm during past hour, but NOT at time of observation.                                               | Slight or moderate thunderstorm, with hail at time of observation.         | Slight or moderate thunderstorm, with hail at time of observation.                   | Heavy thunderstorm, without hail, but with hail at time of observation.                | Thunderstorm combined with duststorm or sandstorm at time of observation.              | Heavy thunderstorm with hail at time of observation.                                           |



TABLE 3. CLOUD TYPE

Code

- |   |                          |
|---|--------------------------|
| 0 | Stratus or Fractostratus |
| 1 | Cirrus                   |
| 2 | Cirrostratus             |
| 3 | Cirrocumulus             |
| 4 | Alto cumulus             |
| 5 | Altostratus              |
| 6 | Stratocumulus            |
| 7 | Nimbostratus             |
| 8 | Cumulus or Fractocumulus |
| 9 | Cumulonimbus             |

TABLE 4. CLOUD AMOUNT

Code

- |   |                        |
|---|------------------------|
| 0 | No clouds              |
| 1 | Less than 1/10 or 1/10 |
| 2 | 2/10 and 3/10          |
| 3 | 4/10                   |
| 4 | 5/10                   |
| 5 | 6/10                   |
| 6 | 7/10 and 8/10          |
| 7 | 9/10 and 9/10 plus     |
| 8 | 10/10                  |
| 9 | Sky obscured           |

TABLE 5. SEA AMOUNT

| <u>Code</u> | <u>Mean Max. Height<br/>of Sea Waves<br/>in feet (Approx.)</u> | <u>Description</u>      |
|-------------|----------------------------------------------------------------|-------------------------|
| 0           | 0                                                              | Calm (glassy)           |
| 1           | 0 - 1/3                                                        | Calm (rippled)          |
| 2           | 1/3 - 1 2/3                                                    | Smooth (wavelets)       |
| 3           | 1 2/3 - 4                                                      | Slight                  |
| 4           | 4 - 8                                                          | Moderate                |
| 5           | 8 - 13                                                         | Rough                   |
| 6           | 13 - 20                                                        | Very rough              |
| 7           | 20 - 30                                                        | High                    |
| 8           | 30 - 45                                                        | Very high               |
| 9           | over 45                                                        | Phenomenal <sup>+</sup> |

+ As might be expected in center of hurricane

TABLE 6. SWELL AMOUNT

| <u>Code</u> | <u>Approximate<br/>Height<br/>(feet)</u> | <u>Description</u> |                     | <u>Approximate<br/>Length<br/>(feet)</u> |
|-------------|------------------------------------------|--------------------|---------------------|------------------------------------------|
| 0           | ----                                     | No swell           |                     | ----                                     |
| 1           | 1 to 6                                   | Low swell          | Short or<br>Average | 0 to 600                                 |
| 2           |                                          |                    | Long                | Above 600                                |
| 3           | 6 to 12                                  | Moderate           | Short               | 0 to 300                                 |
| 4           |                                          |                    | Average             | 300 to 600                               |
| 5           |                                          |                    | Long                | Above 600                                |
| 6           | Greater<br>than 12                       | High               | Short               | 0 to 300                                 |
| 7           |                                          |                    | Average             | 300 to 600                               |
| 8           |                                          |                    | Long                | Above 600                                |
| 9           | ----                                     | Confused           |                     | ----                                     |

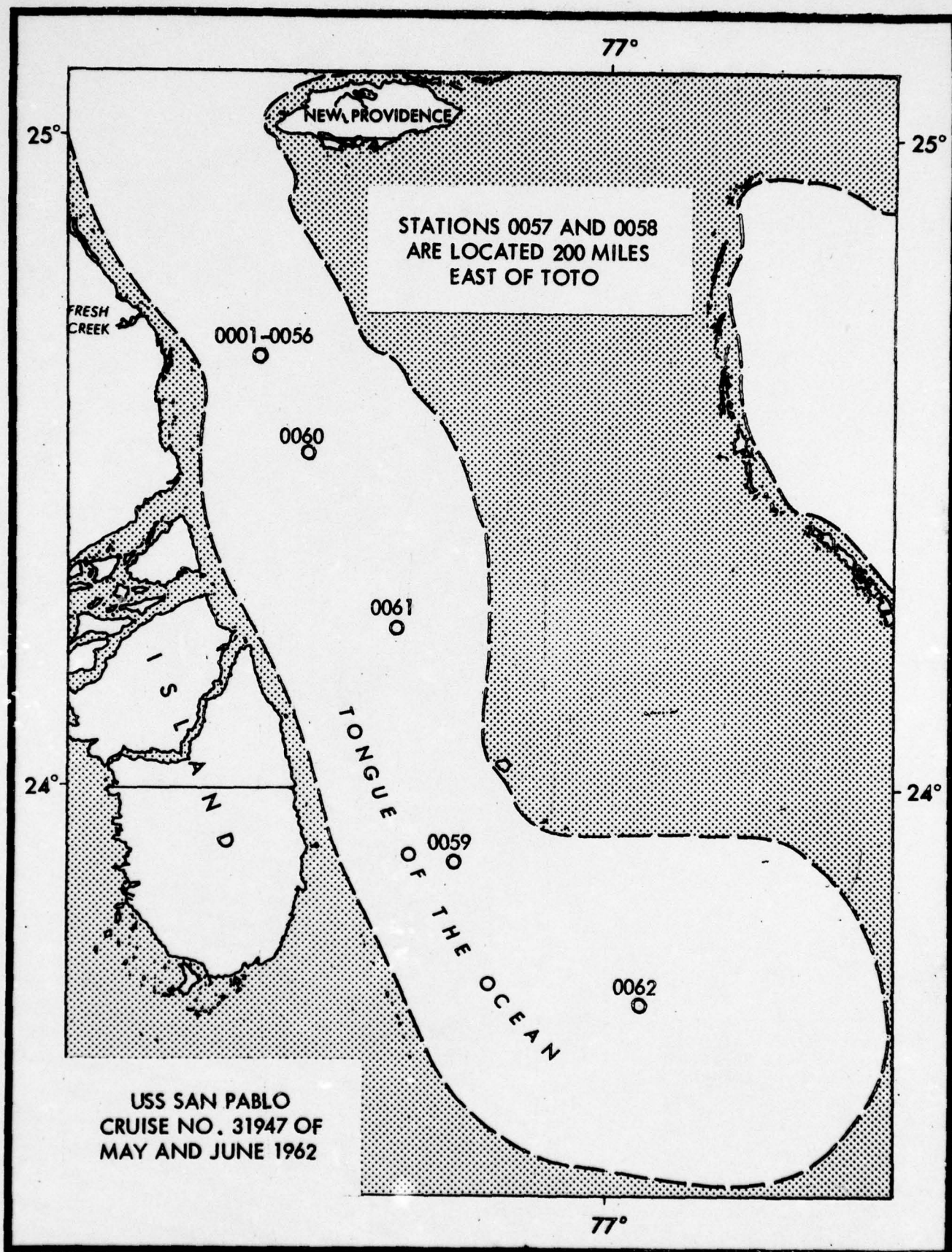
TABLE 7. VISIBILITY

| <u>Code</u> |                                          |
|-------------|------------------------------------------|
| 0           | Dense fog ----- 50 yards                 |
| 1           | Thick fog ----- 200 yards                |
| 2           | Fog ----- 400 yards                      |
| 3           | Moderate fog ----- 1000 yards            |
| 4           | Thin fog or mist ----- 1 mile            |
| 5           | Visibility poor ----- 2 miles            |
| 6           | Visibility moderate ----- 5 miles        |
| 7           | Visibility good ----- 10 miles           |
| 8           | Visibility very good ----- 30 miles      |
| 9           | Visibility excellent ----- Over 30 miles |

TABLE 8. WATER COLOR

| <u>Code (Percent yellow)</u> | <u>Description</u>            |
|------------------------------|-------------------------------|
| 00 -----                     | Deep blue                     |
| 10 -----                     | Blue                          |
| 20 -----                     | Greenish-blue (or green blue) |
| 30 -----                     | Bluish-green (or blue green)  |
| 40 -----                     | Green                         |
| 50 -----                     | Light Green                   |
| 60 -----                     | Yellowish-green               |
| 70 -----                     | Yellow green                  |
| 80 -----                     | Green yellow                  |
| 90 -----                     | Greenish-yellow               |
| 99 -----                     | Yellow                        |





| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |       |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |       |           |       | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |       |                               |                         |
| 31947                | 0001    | 05   | 20  | 1962 | 22   | 24       | 40' N | 077       | 35' W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 16           | 24              | 5     | 20            | 4       | 01    | 8    | 2    | 36   | 1     |      |      |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |     |     |    |                |     |       |                    |
|-------------------------|---------------------|------|-----|-----|----|----------------|-----|-------|--------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |     | S ‰ |    | σ <sub>t</sub> |     | Σ ΔD  | σ <sub>Δ</sub> m/l |
|                         |                     | ↓    | ↓   | ↓   | ↓  | ↓              | ↓   |       |                    |
| STD                     | 0000                | 25   | 61  | 36  | 51 | 24             | 31  | 0 000 |                    |
| OBS                     | 0000                | 25   | 61  | 36  | 51 | 24             | 31  |       | 5045 7             |
| STD                     | 0010†               | 25   | 30  | 36  | 52 | 24             | 42  | 0 036 | 5043 9             |
| STD                     | 0020†               | 25   | 02  | 36  | 53 | 24             | 51  | 0 071 | 5042 4             |
| STD                     | 0030†               | 24   | 80  | 36  | 55 | 24             | 59  | 0 105 | 5041 3             |
| OBS                     | 0040                | 24   | 61  | 36  | 58 | 24             | 67  |       | 5040 5             |
| STD                     | 0050                | 24   | 52  | 36  | 65 | 24             | 75  | 0 170 | 5040 6             |
| STD                     | 0075                | 24   | 30  | 36  | 74 | 24             | 89  | 0 250 | 5040 5             |
| OBS                     | 0075                | 24   | 30  | 36  | 74 | 24             | 89  |       | 5040 5             |
| STD                     | 0100                | 24   | 11  | 36  | 71 | 24             | 92  | 0 327 | 5040 3             |
| OBS                     | 0100                | 24   | 11  | 36  | 71 | 24             | 92  |       | 5040 3             |
| STD                     | 0150                | 24   | 02  | 36  | 90 | 25             | 09  | 0 477 | 5043 0             |
| OBS                     | 0150                | 24   | 02  | 36  | 90 | 25             | 09  |       | 5043 0             |
| OBS                     | 0175                | 23   | 21  | 36  | 87 | 25             | 31  |       | 5037 7             |
| STD                     | 0200                | 21   | 25  | 36  | 61 | 25             | 67  | 0 611 | 5021 7             |
| OBS                     | 0200                | 19   | 78* | 36  | 61 | 26             | 07* |       |                    |
| OBS                     | 0225                | 19   | 78  | 36  | 59 | 26             | 05  |       | 5010 1             |
| STD                     | 0250                | 18   | 79  | 36  | 53 | 26             | 26  | 0 718 | 5002 2             |
| OBS                     | 0250                | 18   | 79  | 36  | 53 | 26             | 26  |       | 5002 2             |
| STD                     | 0300                | 18   | 09  | 36  | 45 | 26             | 38  | 0 806 | 4998 0             |
| OBS                     | 0300                | 18   | 09  | 36  | 45 | 26             | 38  |       | 4998 0             |
| STD                     | 0400                | 16   | 56  | 36  | 21 | 26             | 56  | 0 977 | 4987 6             |
| STD                     | 0500                | 14   | 59  | 35  | 92 | 26             | 79  | 1 128 | 4971 8             |
| OBS                     | 0500                | 14   | 59  | 35  | 92 | 26             | 79  |       | 4971 8             |
| STD                     | 0600                | 12   | 18  | 35  | 58 | 27             | 02  | 1 259 | 4949 6             |
| OBS                     | 0600                | 12   | 18  | 35  | 58 | 27             | 02  |       | 4949 6             |
| OBS                     | 0650                | 11   | 17  | 35  | 44 | 27             | 11  |       | 4940 2             |
| OBS                     | 0700                | 10   | 29  | 35  | 38 | 27             | 22  |       | 4932 4             |
| OBS                     | 0750                | 09   | 35  | 35  | 25 | 27             | 28  |       | 4923 3             |
| STD                     | 0800                | 08   | 60  | 35  | 19 | 27             | 35  | 1 468 | 4916 6             |
| OBS                     | 0800                | 08   | 60  | 35  | 19 | 27             | 35  |       | 4916 6             |
| STD                     | 1000                | 05   | 25  | 35  | 03 | 27             | 69  | 1 610 | 4883 7             |
| OBS                     | 1000                | 05   | 25  | 35  | 03 | 27             | 69  |       | 4883 7             |
| STD                     | 1200                | 04   | 53  | 35  | 01 | 27             | 76  | 1 712 | 4884 9             |
| OBS                     | 1300                | 04   | 25  | 35  | 00 | 27             | 78  |       | 4886 5             |
| STD                     | 1500                | 03   | 85  | 34  | 99 | 27             | 82  | 1 848 | 4892 0             |
| OBS                     | 1800                | 03   | 63  | 34  | 97 | 27             | 82  |       | 4905 5             |

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| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |  |  |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|--|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |  |  |
| 31947                | 0002    | 05   | 21  | 1962 | 01   | 24       | 40 N | 077 35 W  | 1850                          | 18                      |  |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 16           | 24 0            | 19 8  |               | 02      | 6     | 1    | 08   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |       |           |    |         |     |                     |     |           |     |                          |  |                     |   |  |
|-------------------------|-------|-----------|----|---------|-----|---------------------|-----|-----------|-----|--------------------------|--|---------------------|---|--|
| SAMPLE<br>DEPTH (M.)    |       | T °C<br>↓ |    | S‰<br>↓ |     | σ <sub>t</sub><br>↓ |     | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ |  | V <sub>t</sub><br>↓ |   |  |
| STD                     | 0000  | 25        | 30 | 36      | 49  | 24                  | 40  | 0         | 000 |                          |  | 5043                | 3 |  |
| OBS                     | 0000  | 25        | 30 | 36      | 49  | 24                  | 40  |           |     |                          |  | 5043                | 3 |  |
| STD                     | 0010† | 25        | 14 | 36      | 50  | 24                  | 45  | 0         | 035 |                          |  | 5042                | 6 |  |
| STD                     | 0020† | 24        | 99 | 36      | 50  | 24                  | 50  | 0         | 070 |                          |  | 5042                | 0 |  |
| STD                     | 0030† | 24        | 84 | 36      | 51  | 24                  | 55  | 0         | 104 |                          |  | 5041                | 4 |  |
| OBS                     | 0040  | 24        | 71 | 36      | 51  | 24                  | 59  |           |     |                          |  | 5041                | 0 |  |
| STD                     | 0050  | 24        | 54 | 36      | 57  | 24                  | 69  | 0         | 171 |                          |  | 5040                | 4 |  |
| STD                     | 0075  | 24        | 31 | 36      | 70  | 24                  | 86  | 0         | 251 |                          |  | 5040                | 5 |  |
| OBS                     | 0075  | 24        | 31 | 36      | 70  | 24                  | 86  |           |     |                          |  | 5040                | 5 |  |
| STD                     | 0100  | 24        | 35 | 36      | 83  | 24                  | 94  | 0         | 329 |                          |  | 5042                | 6 |  |
| OBS                     | 0100  | 24        | 35 | 36      | 83  | 24                  | 94  |           |     |                          |  | 5042                | 6 |  |
| STD                     | 0150  | 24        | 10 | 36      | 90  | 25                  | 07  | 0         | 479 |                          |  | 5043                | 6 |  |
| OBS                     | 0150  | 24        | 10 | 36      | 90  | 25                  | 07  |           |     |                          |  | 5043                | 6 |  |
| OBS                     | 0175  | 23        | 04 | 36      | 89  | 25                  | 37  |           |     |                          |  | 5036                | 4 |  |
| STD                     | 0200† | 22        | 19 | 36      | 80  | 25                  | 55  | 0         | 617 |                          |  | 5030                | 4 |  |
| STD                     | 0250† | 20        | 54 | 36      | 61  | 25                  | 86  | 0         | 736 |                          |  | 5018                | 3 |  |
| STD                     | 0300† | 18        | 97 | 36      | 44  | 26                  | 15  | 0         | 641 |                          |  | 5006                | 2 |  |
| STD                     | 0400† | 16        | 06 | 36      | 13  | 26                  | 62  | 1         | 018 |                          |  | 4982                | 3 |  |
| STD                     | 0500† | 13        | 47 | 35      | 85  | 26                  | 97  | 1         | 158 |                          |  | 4959                | 5 |  |
| STD                     | 0600† | 11        | 20 | 35      | 61  | 27                  | 23  | 1         | 269 |                          |  | 4938                | 6 |  |
| STD                     | 0800† | 07        | 60 | 35      | 25  | 27                  | 55  | 1         | 437 |                          |  | 4904                | 4 |  |
| STD                     | 1000  | 05        | 27 | 35      | 03  | 27                  | 69  | 1         | 559 |                          |  | 4884                | 0 |  |
| OBS                     | 1000  | 05        | 27 | 35      | 03  | 27                  | 69  |           |     |                          |  | 4884                | 0 |  |
| STD                     | 1200  | 04        | 45 | 35      | 00  | 27                  | 76  | 1         | 661 |                          |  | 4883                | 8 |  |
| OBS                     | 1300  | 04        | 14 | 34      | 99  | 27                  | 76  |           |     |                          |  | 4885                | 0 |  |
| STD                     | 1500  | 03        | 73 |         |     |                     |     |           |     |                          |  |                     |   |  |
| OBS                     | 1800  | 03        | 63 | 35      | 09* | 27                  | 92* |           |     |                          |  |                     |   |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |
| 31947                | 0003    | 05   | 21  | 1962 | 04   | 24 40 N  | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |            | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|------------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY $\Psi$      | WET $\Psi$ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 07   |                | 17           | 23.6            | 19.7       |               | 02      | 0     | 0    | 08   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |       |           |    |          |    |                     |    |           |     |                          |  |                     |   |
|-------------------------|-------|-----------|----|----------|----|---------------------|----|-----------|-----|--------------------------|--|---------------------|---|
| SAMPLE<br>DEPTH (M)     |       | T °C<br>↓ |    | S ‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ |  | V <sub>t</sub><br>↓ |   |
| STD                     | 0000  | 25        | 13 | 36       | 49 | 24                  | 45 | 0         | 000 |                          |  | 5042                | 0 |
| OBS                     | 0000  | 25        | 13 | 36       | 49 | 24                  | 45 |           |     |                          |  | 5042                | 0 |
| STD                     | 0010† | 25        | 04 | 36       | 49 | 24                  | 48 | 0         | 035 |                          |  | 5041                | 8 |
| STD                     | 0020† | 24        | 96 | 36       | 48 | 24                  | 49 | 0         | 069 |                          |  | 5041                | 7 |
| STD                     | 0030† | 24        | 88 | 36       | 48 | 24                  | 52 | 0         | 104 |                          |  | 5041                | 6 |
| OBS                     | 0040  | 24        | 80 | 36       | 48 | 24                  | 54 |           |     |                          |  | 5041                | 6 |
| STD                     | 0050  | 24        | 64 | 36       | 58 | 24                  | 66 | 0         | 171 |                          |  | 5041                | 2 |
| STD                     | 0075  | 24        | 56 | 36       | 81 | 24                  | 86 | 0         | 252 |                          |  | 5042                | 8 |
| OBS                     | 0075  | 24        | 56 | 36       | 81 | 24                  | 86 |           |     |                          |  | 5042                | 8 |
| STD                     | 0100  | 24        | 93 | 37       | 03 | 24                  | 92 | 0         | 330 |                          |  | 5047                | 8 |
| OBS                     | 0100  | 24        | 93 | 37       | 03 | 24                  | 92 |           |     |                          |  | 5047                | 8 |
| STD                     | 0150  | 23        | 94 | 36       | 91 | 25                  | 12 | 0         | 479 |                          |  | 5042                | 4 |
| OBS                     | 0150  | 23        | 94 | 36       | 91 | 25                  | 12 |           |     |                          |  | 5042                | 4 |
| OBS                     | 0175  | 22        | 69 | 36       | 85 | 25                  | 45 |           |     |                          |  | 5033                | 4 |
| STD                     | 0200  | 20        | 44 | 36       | 63 | 25                  | 90 | 0         | 607 |                          |  | 5014                | 8 |
| OBS                     | 0200  | 20        | 44 | 36       | 63 | 25                  | 90 |           |     |                          |  | 5014                | 8 |
| OBS                     | 0225  | 19        | 53 | 36       | 58 | 26                  | 11 |           |     |                          |  | 5007                | 8 |
| STD                     | 0250  | 18        | 83 | 36       | 53 | 26                  | 25 | 0         | 708 |                          |  | 5002                | 5 |
| OBS                     | 0250  | 18        | 83 | 36       | 53 | 26                  | 25 |           |     |                          |  | 5002                | 5 |
| STD                     | 0300  | 18        | 08 | 36       | 45 | 26                  | 38 | 0         | 799 |                          |  | 4997                | 9 |
| OBS                     | 0300  | 18        | 08 | 36       | 45 | 26                  | 38 |           |     |                          |  | 4997                | 9 |
| STD                     | 0400  | 16        | 66 | 36       | 27 | 26                  | 59 | 0         | 966 |                          |  | 4988                | 9 |
| STD                     | 0500  | 14        | 71 | 35       | 98 | 26                  | 81 | 1         | 115 |                          |  | 4973                | 3 |
| OBS                     | 0500  | 14        | 71 | 35       | 98 | 26                  | 81 |           |     |                          |  | 4973                | 3 |
| STD                     | 0600  | 12        | 23 | 35       | 59 | 27                  | 02 | 1         | 245 |                          |  | 4950                | 2 |
| OBS                     | 0600  | 12        | 23 | 35       | 59 | 27                  | 02 |           |     |                          |  | 4950                | 2 |
| OBS                     | 0650  | 11        | 06 | 35       | 44 | 27                  | 13 |           |     |                          |  | 4938                | 9 |
| OBS                     | 0700  | 10        | 30 | 35       | 35 | 27                  | 19 |           |     |                          |  | 4932                | 4 |
| OBS                     | 0750  | 09        | 32 | 35       | 25 | 27                  | 28 |           |     |                          |  | 4922                | 9 |
| STD                     | 0800  | 08        | 67 | 35       | 20 | 27                  | 35 | 1         | 455 |                          |  | 4917                | 5 |
| OBS                     | 0800  | 08        | 67 | 35       | 20 | 27                  | 35 |           |     |                          |  | 4917                | 5 |
| STD                     | 1000  | 05        | 29 | 35       | 05 | 27                  | 70 | 1         | 597 |                          |  | 4884                | 4 |
| OBS                     | 1000  | 05        | 29 | 35       | 05 | 27                  | 70 |           |     |                          |  | 4884                | 4 |
| STD                     | 1200  | 04        | 53 | 35       | 01 | 27                  | 76 | 1         | 698 |                          |  | 4884                | 9 |
| OBS                     | 1300  | 04        | 24 | 34       | 99 | 27                  | 77 |           |     |                          |  | 4886                | 3 |
| STD                     | 1500  | 03        | 82 | 34       | 97 | 27                  | 80 | 1         | 836 |                          |  | 4891                | 5 |
| OBS                     | 1800  | 03        | 60 | 34       | 97 | 27                  | 82 |           |     |                          |  | 4905                | 0 |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |  |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|--|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |  |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |  | LONGITUDE |                               |                         |  |
| 31947                | 0004    | 05   | 21  | 1962 | 07   | 24 40 N  |  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 12   |                | 16           | 23.8            | 20.4  |               | 01      | 8     | 2    | 08   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |    |                |    |       |                    |                |
|-------------------------|---------------------|------|----|----|----|----------------|----|-------|--------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q <sub>0</sub> m/s | V <sub>t</sub> |
|                         |                     | ↓    |    | ↓  |    | ↓              |    | ↓     |                    | ↓              |
| STD                     | 0000                | 25   | 08 | 36 | 53 | 24             | 49 | 0 000 |                    | 5041 7         |
| OBS                     | 0000                | 25   | 08 | 36 | 53 | 24             | 49 |       |                    | 5041 7         |
| STD                     | 0010†               | 24   | 97 | 36 | 52 | 24             | 52 | 0 034 |                    | 5041 4         |
| STD                     | 0020†               | 24   | 88 | 36 | 51 | 24             | 54 | 0 069 |                    | 5041 2         |
| STD                     | 0030†               | 24   | 81 | 36 | 51 | 24             | 56 | 0 103 |                    | 5041 2         |
| OBS                     | 0040                | 24   | 76 | 36 | 50 | 24             | 57 |       |                    | 5041 3         |
| STD                     | 0050                | 24   | 75 | 36 | 62 | 24             | 60 | 0 170 |                    | 5042 2         |
| STD                     | 0075                | 24   | 74 | 36 | 85 | 24             | 84 | 0 250 |                    | 5044 4         |
| OBS                     | 0075                | 24   | 74 | 36 | 85 | 24             | 84 |       |                    | 5044 4         |
| STD                     | 0100                | 24   | 74 | 36 | 98 | 24             | 94 | 0 328 |                    | 5046 2         |
| OBS                     | 0100                | 24   | 74 | 36 | 98 | 24             | 94 |       |                    | 5046 2         |
| STD                     | 0150                | 24   | 06 | 36 | 95 | 25             | 12 | 0 470 |                    | 5043 5         |
| OBS                     | 0150                | 24   | 06 | 36 | 95 | 25             | 12 |       |                    | 5043 5         |
| OBS                     | 0175                | 22   | 34 | 36 | 85 | 25             | 55 |       |                    | 5030 5         |
| STD                     | 0200                | 20   | 68 | 36 | 64 | 25             | 85 | 0 607 |                    | 5016 9         |
| OBS                     | 0200                | 20   | 68 | 36 | 64 | 25             | 85 |       |                    | 5016 9         |
| OBS                     | 0225                | 19   | 50 | 36 | 56 | 26             | 10 |       |                    | 5007 5         |
| STD                     | 0250                | 18   | 79 | 36 | 53 | 26             | 26 | 0 709 |                    | 5002 2         |
| OBS                     | 0250                | 18   | 79 | 36 | 53 | 26             | 26 |       |                    | 5002 2         |
| STD                     | 0300                | 18   | 10 | 36 | 45 | 26             | 37 | 0 799 |                    | 4998 1         |
| OBS                     | 0300                | 18   | 10 | 36 | 45 | 26             | 37 |       |                    | 4998 1         |
| STD                     | 0400                | 16   | 62 | 36 | 25 | 26             | 58 | 0 967 |                    | 4988 4         |
| STD                     | 0500                | 14   | 67 | 35 | 93 | 26             | 78 | 1 118 |                    | 4972 6         |
| OBS                     | 0500                | 14   | 57 | 35 | 93 | 26             | 78 |       |                    | 4972 6         |
| STD                     | 0600                | 12   | 24 | 35 | 49 | 26             | 94 | 1 254 |                    | 4949 9         |
| OBS                     | 0600                | 12   | 24 | 35 | 49 | 26             | 94 |       |                    | 4949 9         |
| OBS                     | 0650                | 11   | 38 | 35 | 51 | 27             | 12 |       |                    | 4942 9         |
| OBS                     | 0700                | 10   | 29 | 35 | 35 | 27             | 19 |       |                    | 4932 3         |
| OBS                     | 0750                | 09   | 39 | 35 | 26 | 27             | 28 |       |                    | 4923 8         |
| STD                     | 0800                | 08   | 67 | 35 | 21 | 27             | 35 | 1 470 |                    | 4917 5         |
| OBS                     | 0800                | 08   | 67 | 35 | 21 | 27             | 35 |       |                    | 4917 5         |
| STD                     | 1000                | 05   | 27 | 35 | 03 | 27             | 69 | 1 612 |                    | 4884 0         |
| OBS                     | 1000                | 05   | 27 | 35 | 03 | 27             | 69 |       |                    | 4884 0         |
| STD                     | 1200                | 04   | 47 | 35 | 00 | 27             | 76 | 1 714 |                    | 4884 0         |
| OBS                     | 1300                | 04   | 16 | 34 | 99 | 27             | 78 |       |                    | 4885 2         |
| STD                     | 1500                | 03   | 74 | 34 | 97 | 27             | 81 | 1 851 |                    | 4890 4         |
| OBS                     | 1800                | 03   | 57 | 34 | 96 | 27             | 82 |       |                    | 4904 6         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0005    | 05   | 21  | 1962 | 10   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|-----|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |     | COL.  | TRANS. |
| 00    | 00   |                | 13           | 23 3            | 19 9  |               | 01      | 8     | 1    | 00   |      |       |      | 7   |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |      |     |                    |
|-------------------------|---------------------|------|----|-----|----|----------------|----|------|-----|--------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD |     | σ <sub>ρ</sub> / Δ |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  | ↓    | ↓   |                    |
| STD                     | 0000                | 25   | 05 | 36  | 51 | 24             | 49 | 0    | 000 | 5041 4             |
| OBS                     | 0000                | 25   | 05 | 36  | 51 | 24             | 49 |      |     | 5041 4             |
| STD                     | 0010†               | 24   | 82 | 36  | 52 | 24             | 56 | 0    | 034 | 5040 2             |
| STD                     | 0020†               | 24   | 74 | 36  | 53 | 24             | 60 | 0    | 068 | 5040 2             |
| STD                     | 0030†               | 24   | 68 | 36  | 54 | 24             | 62 | 0    | 101 | 5040 3             |
| OBS                     | 0040                | 24   | 64 | 36  | 55 | 24             | 64 |      |     | 5040 6             |
| STD                     | 0050                | 25   | 09 | 36  | 84 | 24             | 72 | 0    | 167 | 5045 7             |
| STD                     | 0075                | 25   | 38 | 37  | 15 | 24             | 87 | 0    | 247 | 5050 4             |
| OBS                     | 0075                | 25   | 38 | 37  | 15 | 24             | 87 |      |     | 5050 4             |
| STD                     | 0100                | 24   | 47 | 36  | 86 | 24             | 93 | 0    | 324 | 5043 6             |
| OBS                     | 0100                | 24   | 47 | 36  | 86 | 24             | 93 |      |     | 5043 6             |
| STD                     | 0150                | 23   | 93 | 36  | 93 | 25             | 14 | 0    | 474 | 5042 4             |
| OBS                     | 0150                | 23   | 93 | 36  | 93 | 25             | 14 |      |     | 5042 4             |
| OBS                     | 0175                | 23   | 15 | 36  | 98 | 25             | 41 |      |     | 5037 6             |
| STD                     | 0200                | 20   | 52 | 36  | 63 | 25             | 88 | 0    | 601 | 5015 5             |
| OBS                     | 0200                | 20   | 52 | 36  | 63 | 25             | 88 |      |     | 5015 5             |
| OBS                     | 0225                | 19   | 79 | 36  | 60 | 26             | 06 |      |     | 5010 2             |
| STD                     | 0250                | 18   | 88 | 36  | 53 | 26             | 24 | 0    | 703 | 5003 0             |
| OBS                     | 0250                | 18   | 88 | 36  | 53 | 26             | 24 |      |     | 5003 0             |
| STD                     | 0300                | 18   | 18 | 36  | 46 | 26             | 36 | 0    | 794 | 4998 9             |
| OBS                     | 0300                | 18   | 18 | 36  | 46 | 26             | 36 |      |     | 4998 9             |
| STD                     | 0400                | 15   | 86 | 36  | 25 | 26             | 76 | 0    | 954 | 4980 8             |
| STD                     | 0500                | 13   | 88 | 35  | 96 | 26             | 97 | 1    | 087 | 4964 4             |
| OBS                     | 0500                |      |    | 35  | 96 |                |    |      |     |                    |
| STD                     | 0600                | 12   | 24 | 35  | 59 | 27             | 02 | 1    | 210 | 4950 3             |
| OBS                     | 0600                | 12   | 24 | 35  | 59 | 27             | 02 |      |     | 4950 3             |
| OBS                     | 0650                | 11   | 55 | 35  | 49 | 27             | 07 |      |     | 4944 8             |
| OBS                     | 0700                | 10   | 43 | 35  | 36 | 27             | 18 |      |     | 4934 0             |
| OBS                     | 0750                | 09   | 70 | 35  | 29 | 27             | 25 |      |     | 4927 7             |
| STD                     | 0800                | 08   | 78 | 35  | 20 | 27             | 33 | 1    | 421 | 4918 9             |
| OBS                     | 0800                | 08   | 78 | 35  | 20 | 27             | 33 |      |     | 4918 9             |
| STD                     | 1000                | 05   | 23 | 35  | 03 | 27             | 69 | 1    | 566 | 4883 5             |
| OBS                     | 1000                | 05   | 23 | 35  | 03 | 27             | 69 |      |     | 4883 5             |
| STD                     | 1200                | 04   | 43 | 35  | 00 | 27             | 76 | 1    | 666 | 4883 5             |
| OBS                     | 1300                | 04   | 12 | 34  | 99 | 27             | 79 |      |     | 4884 7             |
| STD                     | 1500                | 03   | 70 | 34  | 98 | 27             | 82 | 1    | 800 | 4889 9             |
| OBS                     | 1800                | 03   | 54 | 34  | 97 | 27             | 83 |      |     | 4904 2             |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0006    | 05   | 21  | 1962 | 13   | 24       | 40 N | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 00    | 00   |                | 16           | 25 0            | 20 8  |               |         | 01    | 8    | 2    | 00   | 0     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |            |                     |           |                          |                     |  |  |
|-------------------------|---------------------|-----------|------------|---------------------|-----------|--------------------------|---------------------|--|--|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ | S % O<br>↓ | σ <sub>t</sub><br>↓ | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |  |  |
| STD                     | 0000                | 25 08     | 36 50      | 24 47               | 0 000     |                          | 5041 6              |  |  |
| OBS                     | 0000                | 25 08     | 36 50      | 24 47               |           |                          | 5041 6              |  |  |
| STD                     | 0010†               | 24 83     | 36 52      | 24 56               | 0 034     |                          | 5040 3              |  |  |
| STD                     | 0020†               | 24 66     | 36 54      | 24 63               | 0 068     |                          | 5039 6              |  |  |
| STD                     | 0030†               | 24 57     | 36 51      | 24 63               | 0 101     |                          | 5039 3              |  |  |
| OBS                     | 0040                | 24 55     | 36 57      | 24 68               |           |                          | 5040 0              |  |  |
| STD                     | 0050                | 24 92     | 36 77      | 24 72               | 0 167     |                          | 5044 1              |  |  |
| STD                     | 0075                | 25 11     | 37 00      | 24 84               | 0 247     |                          | 5047 7              |  |  |
| OBS                     | 0075                | 25 11     | 37 00      | 24 84               |           |                          | 5047 7              |  |  |
| STD                     | 0100                | 24 27     | 36 83      | 24 97               | 0 324     |                          | 5042 0              |  |  |
| OBS                     | 0100                | 24 27     | 36 83      | 24 97               |           |                          | 5042 0              |  |  |
| STD                     | 0150                | 24 03     | 36 95      | 25 13               | 0 473     |                          | 5043 2              |  |  |
| OBS                     | 0150                | 24 03     | 36 95      | 25 13               |           |                          | 5043 2              |  |  |
| OBS                     | 0175                | 22 99     | 36 91      | 25 40               |           |                          | 5036 1              |  |  |
| STD                     | 0200                | 20 72     | 36 64      | 25 84               | 0 602     |                          | 5017 3              |  |  |
| OBS                     | 0200                | 20 72     | 36 64      | 25 84               |           |                          | 5017 3              |  |  |
| OBS                     | 0225                | 19 41     | 36 57      | 26 13               |           |                          | 5006 7              |  |  |
| STD                     | 0250                | 18 77     | 36 52      | 26 26               | 0 704     |                          | 5002 0              |  |  |
| OBS                     | 0250                | 18 77     | 36 52      | 26 26               |           |                          | 5002 0              |  |  |
| STD                     | 0300                | 18 16     | 36 46      | 26 37               | 0 795     |                          | 4998 7              |  |  |
| OBS                     | 0300                | 18 16     | 36 46      | 26 37               |           |                          | 4998 7              |  |  |
| STD                     | 0400                | 16 94     | 36 28      | 26 53               | 0 966     |                          | 4991 7              |  |  |
| STD                     | 0500                | 15 00     | 35 99      | 26 75               | 1 121     |                          | 4976 3              |  |  |
| OBS                     | 0500                | 15 00     | 35 99      | 26 75               |           |                          | 4976 3              |  |  |
| STD                     | 0600                | 12 33     | 35 60      | 27 01               | 1 255     |                          | 4951 4              |  |  |
| OBS                     | 0600                | 12 33     | 35 60      | 27 01               |           |                          | 4951 4              |  |  |
| OBS                     | 0650                | 11 42     | 35 48      | 27 09               |           |                          | 4943 3              |  |  |
| OBS                     | 0700                | 10 49     | 35 37      | 27 17               |           |                          | 4934 7              |  |  |
| OBS                     | 0750                | 09 80     | 35 29      | 27 23               |           |                          | 4928 9              |  |  |
| STD                     | 0800                | 08 95     | 35 22      | 27 32               | 1 469     |                          | 4921 0              |  |  |
| OBS                     | 0800                | 08 95     | 35 22      | 27 32               |           |                          | 4921 0              |  |  |
| STD                     | 1000                | 05 29     | 35 04      | 27 69               | 1 615     |                          | 4884 3              |  |  |
| OBS                     | 1000                | 05 29     | 35 04      | 27 69               |           |                          | 4884 3              |  |  |
| STD                     | 1200                | 04 47     | 35 00      | 27 76               | 1 716     |                          | 4884 0              |  |  |
| OBS                     | 1300                | 04 15     | 34 99      | 27 78               |           |                          | 4885 1              |  |  |
| STD                     | 1500                | 03 71     | 34 97      | 27 81               | 1 852     |                          | 4890 0              |  |  |
| OBS                     | 1800                | 03 54     | 34 96      | 27 82               |           |                          | 4904 2              |  |  |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0007    | 05   | 21  | 1962 | 16   | 24       | 40 N | 077.      | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 00    | 00   |                | 17           | 28 3            | 22 2  |               | 02      | 6     | 2    | 00   | 0    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |                |      |                     |                |        |
|-------------------------|---------------------|------|----|----|----------------|------|---------------------|----------------|--------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ | σ <sub>t</sub> | Z ΔD | σ <sub>2m</sub> / t | V <sub>t</sub> |        |
|                         |                     | ↓    | ↓  |    |                |      |                     |                |        |
| STD                     | 0000                | 25   | 52 | 36 | 50             | 24   | 33                  | 0              | 000    |
| OBS                     | 0000                | 25   | 52 | 36 | 50             | 24   | 33                  |                | 5045 0 |
| STD                     | 0010†               | 25   | 27 | 36 | 52             | 24   | 43                  | 0              | 036    |
| STD                     | 0020†               | 25   | 09 | 36 | 53             | 24   | 49                  | 0              | 070    |
| STD                     | 0030†               | 24   | 99 | 36 | 55             | 24   | 54                  | 0              | 105    |
| OBS                     | 0040                | 24   | 96 | 36 | 56             | 24   | 55                  |                | 5043 1 |
| STD                     | 0050                | 25   | 35 | 36 | 84             | 24   | 64                  | 0              | 172    |
| STD                     | 0075                | 25   | 43 | 37 | 12             | 24   | 83                  | 0              | 253    |
| OBS                     | 0075                | 25   | 43 | 37 | 12             | 24   | 83                  |                | 5050 6 |
| STD                     | 0100                | 24   | 22 | 36 | 77             | 24   | 93                  | 0              | 331    |
| OBS                     | 0100                | 24   | 22 | 36 | 77             | 24   | 93                  |                | 5041 4 |
| STD                     | 0150                | 23   | 63 | 36 | 93             | 25   | 23                  | 0              | 478    |
| OBS                     | 0150                |      |    | 36 | 93             |      |                     |                | 5040 0 |
| OBS                     | 0175                | 22   | 46 | 36 | 82             | 25   | 49                  |                | 5031 4 |
| STD                     | 0200                | 20   | 70 | 36 | 65             | 25   | 85                  | 0              | 604    |
| OBS                     | 0200                | 20   | 70 | 36 | 65             | 25   | 85                  |                | 5017 1 |
| OBS                     | 0225                | 19   | 37 | 36 | 56             | 26   | 13                  |                | 5017 1 |
| STD                     | 0250                | 18   | 64 | 36 | 51             | 26   | 28                  | 0              | 706    |
| OBS                     | 0250                | 18   | 64 | 36 | 51             | 26   | 28                  |                | 5006 3 |
| STD                     | 0300                | 18   | 04 | 36 | 47             | 26   | 40                  | 0              | 795    |
| OBS                     | 0300                | 18   | 04 | 36 | 47             | 26   | 40                  |                | 5000 7 |
| STD                     | 0400                | 16   | 68 | 36 | 25             | 26   | 57                  | 0              | 962    |
| STD                     | 0500                | 14   | 81 | 35 | 96             | 26   | 77                  | 1              | 115    |
| OBS                     | 0500                | 14   | 81 | 35 | 96             | 26   | 77                  |                | 4997 6 |
| STD                     | 0600                | 12   | 44 | 35 | 61             | 27   | 00                  | 1              | 248    |
| OBS                     | 0600                | 12   | 44 | 35 | 61             | 27   | 00                  |                | 4974 2 |
| OBS                     | 0650                | 11   | 41 | 35 | 49             | 27   | 10                  |                | 4952 6 |
| OBS                     | 0700                | 10   | 59 | 35 | 39             | 27   | 17                  |                | 4943 2 |
| OBS                     | 0750                | 09   | 66 | 35 | 29             | 27   | 26                  |                | 4936 0 |
| STD                     | 0800                | 08   | 85 | 35 | 22             | 27   | 33                  | 1              | 461    |
| OBS                     | 0800                | 08   | 85 | 35 | 22             | 27   | 33                  |                | 4927 2 |
| STD                     | 1000                | 05   | 38 | 35 | 05             | 27   | 69                  | 1              | 606    |
| OBS                     | 1000                | 05   | 38 | 35 | 05             | 27   | 69                  |                | 4919 8 |
| STD                     | 1200                | 04   | 52 | 35 | 01             | 27   | 76                  | 1              | 708    |
| OBS                     | 1300                | 04   | 19 | 34 | 99             | 27   | 78                  |                | 4885 6 |
| STD                     | 1500                | 03   | 74 | 34 | 99             | 27   | 83                  | 1              | 842    |
| OBS                     | 1800                | 03   | 59 | 34 | 98             | 27   | 83                  |                | 4884 7 |
|                         |                     |      |    |    |                |      |                     |                | 4885 6 |
|                         |                     |      |    |    |                |      |                     |                | 4890 5 |
|                         |                     |      |    |    |                |      |                     |                | 4905 0 |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0008    | 05   | 21  | 1962 | 19   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 18   |                | 16           | 28.3            | 22.2  |               | 01      | 8     | 1    | 12   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |        |                |       |                     |                |   |
|-------------------------|---------------------|------|----|--------|----------------|-------|---------------------|----------------|---|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰    | σ <sub>t</sub> | Σ ΔD  | O <sub>2</sub> ml/l | V <sub>t</sub> |   |
|                         |                     | ↓    | ↓  |        |                |       |                     |                |   |
| STD                     | 0000                | 26   | 10 | 36.54  | 24.18          | 0.000 |                     | 5049           | 5 |
| OBS                     | 0000                | 26   | 10 | 36.54  | 24.18          |       |                     | 5049           | 5 |
| STD                     | 0010†               | 25   | 65 | 36.56  | 24.34          | 0.037 |                     | 5046           | 7 |
| STD                     | 0020†               | 25   | 31 | 36.58  | 24.46          | 0.072 |                     | 5044           | 8 |
| STD                     | 0030†               | 25   | 08 | 36.55  | 24.51          | 0.107 |                     | 5043           | 4 |
| OBS                     | 0040                | 24   | 97 | 36.62  | 24.59          |       |                     | 5043           | 4 |
| STD                     | 0050                | 25   | 37 | 36.90  | 24.68          | 0.174 |                     | 5048           | 0 |
| STD                     | 0075                | 25   | 45 | 37.16  | 24.86          | 0.255 |                     | 5050           | 9 |
| OBS                     | 0075                | 25   | 45 | 37.16  | 24.86          |       |                     | 5050           | 9 |
| STD                     | 0100                | 24   | 20 | 36.80  | 24.96          | 0.332 |                     | 5041           | 3 |
| OBS                     | 0100                | 24   | 20 | 36.80  | 24.96          |       |                     | 5041           | 3 |
| STD                     | 0150                | 23   | 98 | 37.02  | 25.20          | 0.479 |                     | 5043           | 1 |
| OBS                     | 0150                | 23   | 98 | 37.02  | 25.20          |       |                     | 5043           | 1 |
| OBS                     | 0175                | 22   | 58 | 36.88  | 25.50          |       |                     | 5032           | 6 |
| STD                     | 0200                | 20   | 75 | 36.69  | 25.87          | 0.605 |                     | 5017           | 7 |
| OBS                     | 0200                | 20   | 75 | 36.69  | 25.87          |       |                     | 5017           | 7 |
| OBS                     | 0225                | 19   | 41 | 36.60  | 26.15          |       |                     | 5006           | 8 |
| STD                     | 0250                | 18   | 67 | 36.53  | 26.29          | 0.706 |                     | 5001           | 1 |
| OBS                     | 0250                | 18   | 67 | 36.53  | 26.29          |       |                     | 5001           | 1 |
| STD                     | 0300                | 17   | 98 | 36.46  | 26.41          | 0.795 |                     | 4997           | 0 |
| OBS                     | 0300                | 17   | 98 | 36.46  | 26.41          |       |                     | 4997           | 0 |
| STD                     | 0400                | 16   | 25 | 36.27  | 26.68          | 0.957 |                     | 4984           | 8 |
| STD                     | 0500                | 14   | 37 | 35.99  | 26.89          | 1.097 |                     | 4969           | 7 |
| OBS                     | 0500                |      |    | 35.99  |                |       |                     |                |   |
| STD                     | 0600                | 12   | 36 | 35.63  | 27.03          | 1.223 |                     | 4951           | 8 |
| OBS                     | 0600                | 12   | 36 | 35.63  | 27.03          |       |                     | 4951           | 8 |
| OBS                     | 0650                | 11   | 30 | 35.49  | 27.12          |       |                     | 4941           | 9 |
| OBS                     | 0700                | 10   | 58 | 35.41  | 27.19          |       |                     | 4935           | 9 |
| OBS                     | 0750                | 09   | 58 | 35.32  | 27.29          |       |                     | 4926           | 4 |
| STD                     | 0800                | 08   | 74 | 35.25  | 27.38          | 1.430 |                     | 4918           | 6 |
| OBS                     | 0800                | 08   | 74 | 35.25  | 27.38          |       |                     | 4918           | 6 |
| STD                     | 1000                | 05   | 35 | 35.15  | 27.77          | 1.563 |                     | 4885           | 6 |
| OBS                     | 1000                | 05   | 35 | 35.14* | 27.77*         |       |                     |                |   |
| STD                     | 1200                | 04   | 46 | 35.07  | 27.81          | 1.652 |                     | 4884           | 2 |
| OBS                     | 1300                | 04   | 13 | 35.04  | 27.83          |       |                     | 4885           | 0 |
| STD                     | 1500                | 03   | 70 | 35.00  | 27.84          | 1.776 |                     | 4890           | 0 |
| CSS                     | 1800                | 03   | 61 | 34.98  | 27.83          |       |                     | 4905           | 2 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0009    | 05   | 21  | 1962 | 22   | 24       | 40 N | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 14   |                | 14           | 27 5            | 21 7  |               |         | 8     | 2    | 12   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |         |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|---------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q, ml/l | V <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  |       |         |                |
| STD                     | 0000                | 25   | 70 | 36  | 49 | 24             | 27 | 0 000 |         | 5046 3         |
| OBS                     | 0000                | 25   | 70 | 36  | 49 | 24             | 27 |       |         | 5046 3         |
| STD                     | 0010†               | 25   | 27 | 36  | 50 | 24             | 41 | 0 036 |         | 5043 6         |
| STD                     | 0020†               | 24   | 93 | 36  | 52 | 24             | 53 | 0 071 |         | 5041 6         |
| STD                     | 0030†               | 24   | 70 | 36  | 57 | 24             | 64 | 0 104 |         | 5040 6         |
| OBS                     | 0040                | 24   | 56 | 36  | 63 | 24             | 73 |       |         | 5040 3         |
| STD                     | 0050                | 24   | 76 | 36  | 79 | 24             | 79 | 0 170 |         | 5042 9         |
| STD                     | 0075                | 24   | 85 | 36  | 99 | 24             | 91 | 0 248 |         | 5045 7         |
| OBS                     | 0075                | 24   | 85 | 36  | 99 | 24             | 91 |       |         | 5045 7         |
| STD                     | 0100                | 24   | 38 | 36  | 93 | 25             | 01 | 0 324 |         | 5043 2         |
| OBS                     | 0100                | 24   | 38 | 36  | 93 | 25             | 01 |       |         | 5043 2         |
| STD                     | 0150                | 23   | 97 | 36  | 95 | 25             | 15 | 0 471 |         | 5042 8         |
| OBS                     | 0150                | 23   | 97 | 36  | 95 | 25             | 15 |       |         | 5042 8         |
| OBS                     | 0175                | 22   | 90 | 36  | 88 | 25             | 41 |       |         | 5035 2         |
| STD                     | 0200                | 20   | 94 | 36  | 68 | 25             | 81 | 0 600 |         | 5019 3         |
| OBS                     | 0200                | 20   | 94 | 36  | 68 | 25             | 81 |       |         | 5019 3         |
| OBS                     | 0225                | 19   | 47 | 36  | 56 | 26             | 11 |       |         | 5007 2         |
| STD                     | 0250                | 18   | 64 | 36  | 53 | 26             | 30 | 0 703 |         | 5000 8         |
| OBS                     | 0250                | 18   | 64 | 36  | 53 | 26             | 30 |       |         | 5000 8         |
| STD                     | 0300                | 17   | 94 | 36  | 46 | 26             | 42 | 0 791 |         | 4996 6         |
| OBS                     | 0300                | 17   | 94 | 36  | 46 | 26             | 42 |       |         | 4996 6         |
| STD                     | 0400                | 16   | 46 | 36  | 23 | 26             | 60 | 0 956 |         | 4986 7         |
| STD                     | 0500                | 14   | 64 | 35  | 95 | 26             | 80 | 1 105 |         | 4972 4         |
| OBS                     | 0500                | 14   | 64 | 35  | 95 | 26             | 80 |       |         | 4972 4         |
| STD                     | 0600                | 12   | 49 | 35  | 63 | 27             | 00 | 1 236 |         | 4953 3         |
| OBS                     | 0600                | 12   | 49 | 35  | 63 | 27             | 00 |       |         | 4953 3         |
| OBS                     | 0650                | 11   | 40 | 35  | 48 | 27             | 09 |       |         | 4943 0         |
| OBS                     | 0700                | 10   | 59 | 35  | 40 | 27             | 18 |       |         | 4936 0         |
| OBS                     | 0750                | 09   | 70 | 35  | 29 | 27             | 25 |       |         | 4927 7         |
| STD                     | 0800                | 08   | 86 | 35  | 22 | 27             | 33 | 1 450 |         | 4919 9         |
| OBS                     | 0800                | 08   | 86 | 35  | 22 | 27             | 33 |       |         | 4919 9         |
| STD                     | 1000                | 05   | 30 | 35  | 04 | 27             | 69 | 1 594 |         | 4884 4         |
| OBS                     | 1000                | 05   | 30 | 35  | 04 | 27             | 69 |       |         | 4884 4         |
| STD                     | 1200                | 04   | 44 | 35  | 01 | 27             | 77 | 1 694 |         | 4883 7         |
| OBS                     | 1300                | 04   | 12 | 35  | 00 | 27             | 80 |       |         | 4884 7         |
| STD                     | 1500                | 03   | 70 | 34  | 98 | 27             | 82 | 1 827 |         | 4889 9         |
| OBS                     | 1800                | 03   | 61 | 34  | 97 | 27             | 82 |       |         | 4905 2         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |    |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |    |
| 31947                | 0010    | 05   | 22  | 1962 | 01   | 24       | 40 N | 077       | 35 W                          | 1850                    | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 14   |                | 15           | 24 9            | 20 7  |               | 01      | 6     | 2    | 14   | 1    |       |      |      |       |        |

| SUBSURFACE OBSERVATIONS |       |           |    |         |    |                     |    |           |     |                          |  |                     |   |
|-------------------------|-------|-----------|----|---------|----|---------------------|----|-----------|-----|--------------------------|--|---------------------|---|
| SAMPLE<br>DEPTH (M)     |       | T °C<br>↓ |    | S‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ |  | V <sub>t</sub><br>↓ |   |
| STD                     | 0000  | 25        | 52 | 36      | 52 | 24                  | 35 | 0         | 000 |                          |  | 5045                | 0 |
| OBS                     | 0000  | 25        | 52 | 36      | 52 | 24                  | 35 |           |     |                          |  | 5045                | 0 |
| STD                     | 0010† | 25        | 31 | 36      | 54 | 24                  | 43 | 0         | 035 |                          |  | 5044                | 1 |
| STD                     | 0020† | 25        | 13 | 36      | 57 | 24                  | 51 | 0         | 070 |                          |  | 5043                | 3 |
| STD                     | 0030† | 24        | 99 | 36      | 56 | 24                  | 54 | 0         | 105 |                          |  | 5042                | 8 |
| OBS                     | 0040  | 24        | 89 | 36      | 61 | 24                  | 61 |           |     |                          |  | 5042                | 7 |
| STD                     | 0050  | 24        | 88 | 36      | 76 | 24                  | 73 | 0         | 171 |                          |  | 5043                | 7 |
| STD                     | 0075  | 24        | 84 | 36      | 96 | 24                  | 89 | 0         | 250 |                          |  | 5045                | 5 |
| OBS                     | 0075  | 24        | 84 | 36      | 96 | 24                  | 89 |           |     |                          |  | 5045                | 5 |
| STD                     | 0100  | 24        | 37 | 36      | 92 | 25                  | 00 | 0         | 327 |                          |  | 5043                | 1 |
| OBS                     | 0100  | 24        | 37 | 36      | 92 | 25                  | 00 |           |     |                          |  | 5043                | 1 |
| STD                     | 0150  | 24        | 00 | 36      | 97 | 25                  | 15 | 0         | 474 |                          |  | 5043                | 1 |
| OBS                     | 0150  | 24        | 00 | 36      | 97 | 25                  | 15 |           |     |                          |  | 5043                | 1 |
| OBS                     | 0175  | 22        | 93 | 36      | 90 | 25                  | 41 |           |     |                          |  | 5035                | 6 |
| STD                     | 0200  | 20        | 76 | 36      | 67 | 25                  | 85 | 0         | 602 |                          |  | 5017                | 7 |
| OBS                     | 0200  | 20        | 76 | 36      | 67 | 25                  | 85 |           |     |                          |  | 5017                | 7 |
| OBS                     | 0225  | 19        | 57 | 36      | 60 | 26                  | 11 |           |     |                          |  | 5008                | 2 |
| STD                     | 0250  | 18        | 79 | 36      | 54 | 26                  | 27 | 0         | 704 |                          |  | 5002                | 2 |
| OBS                     | 0250  | 18        | 79 | 36      | 54 | 26                  | 27 |           |     |                          |  | 5002                | 2 |
| STD                     | 0300  | 18        | 07 | 36      | 47 | 26                  | 40 | 0         | 794 |                          |  | 4997                | 9 |
| OBS                     | 0300  | 18        | 07 | 36      | 47 | 26                  | 40 |           |     |                          |  | 4997                | 9 |
| STD                     | 0400  | 16        | 69 | 36      | 26 | 26                  | 57 | 0         | 961 |                          |  | 4989                | 1 |
| STD                     | 0500  | 14        | 81 | 35      | 98 | 26                  | 79 | 1         | 112 |                          |  | 4974                | 3 |
| OBS                     | 0500  | 14        | 81 | 35      | 98 | 26                  | 79 |           |     |                          |  | 4974                | 3 |
| STD                     | 0600  | 12        | 44 | 35      | 62 | 27                  | 00 | 1         | 244 |                          |  | 4952                | 7 |
| OBS                     | 0600  | 12        | 44 | 35      | 62 | 27                  | 00 |           |     |                          |  | 4952                | 7 |
| OBS                     | 0650  | 11        | 59 | 35      | 51 | 27                  | 08 |           |     |                          |  | 4945                | 3 |
| OBS                     | 0700  | 10        | 59 | 35      | 40 | 27                  | 18 |           |     |                          |  | 4936                | 0 |
| OBS                     | 0750  | 09        | 69 | 35      | 32 | 27                  | 27 |           |     |                          |  | 4927                | 7 |
| STD                     | 0800  | 08        | 94 | 35      | 23 | 27                  | 33 | 1         | 453 |                          |  | 4920                | 9 |
| OBS                     | 0800  | 08        | 94 | 35      | 23 | 27                  | 33 |           |     |                          |  | 4920                | 9 |
| STD                     | 1000  | 05        | 28 | 35      | 05 | 27                  | 70 | 1         | 602 |                          |  | 4884                | 2 |
| OBS                     | 1000  | 05        | 28 | 35      | 05 | 27                  | 70 |           |     |                          |  | 4884                | 2 |
| STD                     | 1200  | 04        | 47 | 35      | 01 | 27                  | 76 | 1         | 702 |                          |  | 4884                | 1 |
| OBS                     | 1300  | 04        | 16 | 34      | 99 | 27                  | 78 |           |     |                          |  | 4885                | 2 |
| STD                     | 1500  | 03        | 74 | 34      | 97 | 27                  | 81 | 1         | 637 |                          |  | 4890                | 4 |
| OBS                     | 1800  | 03        | 61 | 34      | 97 | 27                  | 82 |           |     |                          |  | 4905                | 2 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |  |           |  |                               |                         |
|----------------------|---------|------|-----|------|------|----------|--|-----------|--|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |  |           |  | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |  | LONGITUDE |  |                               |                         |
| 31947                | 0011    | 05   | 22  | 1962 | 04   | 24 40 N  |  | 077 35 W  |  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 16   |                | 15           | 24 9            | 21 1  |               | 02      | 0     | 0    | 14   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |                   |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|-------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Z ΔD  | Q <sub>2m/l</sub> | V <sub>t</sub> |
|                         |                     | ↓    |    | ↓   |    | ↓              |    | ↓     |                   | ↓              |
| STD                     | 0000                | 25   | 31 | 36  | 51 | 24             | 41 | 0 000 |                   | 5043 4         |
| OBS                     | 0000                | 25   | 31 | 36  | 51 | 24             | 41 |       |                   | 5043 4         |
| STD                     | 0010†               | 25   | 20 | 36  | 52 | 24             | 45 | 0 035 |                   | 5043 2         |
| STD                     | 0020†               | 25   | 12 | 36  | 56 | 24             | 50 | 0 070 |                   | 5043 2         |
| STD                     | 0030†               | 25   | 06 | 36  | 61 | 24             | 56 | 0 104 |                   | 5043 5         |
| OBS                     | 0040                | 25   | 04 | 36  | 68 | 24             | 62 |       |                   | 5044 1         |
| STD                     | 0050                | 25   | 08 | 36  | 88 | 24             | 76 | 0 170 |                   | 5045 7         |
| STD                     | 0075                | 25   | 19 | 37  | 08 | 24             | 87 | 0 249 |                   | 5048 7         |
| OBS                     | 0075                | 25   | 19 | 37  | 08 | 24             | 87 |       |                   | 5048 7         |
| STD                     | 0100                | 24   | 35 | 36  | 88 | 24             | 98 | 0 326 |                   | 5042 8         |
| OBS                     | 0100                | 24   | 35 | 36  | 88 | 24             | 98 |       |                   | 5042 8         |
| STD                     | 0150                | 24   | 04 | 36  | 94 | 25             | 12 | 0 475 |                   | 5043 3         |
| OBS                     | 0150                | 24   | 04 | 36  | 94 | 25             | 12 |       |                   | 5043 3         |
| OBS                     | 0175                | 23   | 17 | 36  | 96 | 25             | 39 |       |                   | 5037 7         |
| STD                     | 0200                | 20   | 61 | 36  | 66 | 25             | 88 | 0 603 |                   | 5016 4         |
| OBS                     | 0200                | 20   | 61 | 36  | 66 | 25             | 88 |       |                   | 5016 4         |
| OBS                     | 0225                | 19   | 34 | 36  | 58 | 26             | 16 |       |                   | 5006 1         |
| STD                     | 0250                | 18   | 72 | 36  | 53 | 26             | 28 | 0 704 |                   | 5001 5         |
| OBS                     | 0250                | 18   | 72 | 36  | 53 | 26             | 28 |       |                   | 5001 5         |
| STD                     | 0300                | 18   | 02 | 36  | 46 | 26             | 40 | 0 793 |                   | 4997 4         |
| OBS                     | 0300                | 18   | 02 | 36  | 46 | 26             | 40 |       |                   | 4997 4         |
| STD                     | 0400                | 16   | 71 | 36  | 26 | 26             | 57 | 0 961 |                   | 4989 3         |
| STD                     | 0500                | 14   | 80 | 35  | 98 | 26             | 79 | 1 112 |                   | 4974 2         |
| OBS                     | 0500                | 14   | 80 | 35  | 98 | 26             | 79 |       |                   | 4974 2         |
| STD                     | 0600                | 12   | 28 | 35  | 61 | 27             | 03 | 1 243 |                   | 4950 8         |
| OBS                     | 0600                | 12   | 28 | 35  | 61 | 27             | 03 |       |                   | 4950 8         |
| OBS                     | 0650                | 11   | 21 | 35  | 47 | 27             | 12 |       |                   | 4940 8         |
| OBS                     | 0700                | 10   | 47 | 35  | 39 | 27             | 19 |       |                   | 4934 6         |
| OBS                     | 0750                | 09   | 70 | 35  | 29 | 27             | 25 |       |                   | 4927 7         |
| STD                     | 0800                | 08   | 83 | 35  | 22 | 27             | 34 | 1 453 |                   | 4919 6         |
| OBS                     | 0800                | 08   | 83 | 35  | 22 | 27             | 34 |       |                   | 4919 6         |
| STD                     | 1000                | 05   | 44 | 35  | 05 | 27             | 68 | 1 598 |                   | 4886 3         |
| OBS                     | 1000                | 05   | 44 | 35  | 05 | 27             | 68 |       |                   | 4886 3         |
| STD                     | 1200                | 04   | 43 | 35  | 01 | 27             | 77 | 1 700 |                   | 4883 5         |
| OBS                     | 1300                | 04   | 06 | 34  | 99 | 27             | 79 |       |                   | 4883 9         |
| STD                     | 1500                | 03   | 60 | 34  | 97 | 27             | 82 | 1 831 |                   | 4888 5         |
| OBS                     | 1800                | 03   | 60 | 34  | 97 | 27             | 82 |       |                   | 4905 0         |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0012    | 05   | 22  | 1962 | 07   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 16   |                | 15           | 24              | 6     | 21            | 1       | 01    | 6    | 2    | 16   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |    |                |    |       |                     |                |
|-------------------------|---------------------|------|----|----|----|----------------|----|-------|---------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q <sub>2m l/1</sub> | V <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓  | ↓  | ↓              | ↓  | ↓     | ↓                   | ↓              |
| STD                     | 0000                | 25   | 22 | 36 | 52 | 24             | 44 | 0 000 |                     | 5042 8         |
| OBS                     | 0000                | 25   | 22 | 36 | 52 | 24             | 44 |       |                     | 5042 8         |
| STD                     | 0010†               | 25   | 14 | 36 | 53 | 24             | 47 | 0 035 |                     | 5042 7         |
| STD                     | 0020†               | 25   | 08 | 36 | 56 | 24             | 52 | 0 069 |                     | 5042 9         |
| STD                     | 0030†               | 25   | 03 | 36 | 61 | 24             | 57 | 0 104 |                     | 5043 3         |
| OBS                     | 0040                | 24   | 99 | 36 | 67 | 24             | 63 |       |                     | 5043 7         |
| STD                     | 0050                | 24   | 98 | 36 | 82 | 24             | 74 | 0 170 |                     | 5044 7         |
| STD                     | 0075                | 24   | 97 | 37 | 00 | 24             | 88 | 0 249 |                     | 5046 7         |
| OBS                     | 0075                | 24   | 97 | 37 | 00 | 24             | 88 |       |                     | 5046 7         |
| STD                     | 0100                | 24   | 32 | 36 | 88 | 24             | 99 | 0 326 |                     | 5042 5         |
| OBS                     | 0100                | 24   | 32 | 36 | 88 | 24             | 99 |       |                     | 5042 5         |
| STD                     | 0150                | 23   | 95 | 37 | 00 | 25             | 19 | 0 472 |                     | 5042 8         |
| OBS                     | 0150                | 23   | 95 | 37 | 00 | 25             | 19 |       |                     | 5042 8         |
| OBS                     | 0175                | 23   | 26 | 36 | 95 | 25             | 36 |       |                     | 5038 4         |
| STD                     | 0200                | 20   | 70 | 36 | 67 | 25             | 86 | 0 599 |                     | 5017 2         |
| OBS                     | 0200                | 20   | 70 | 36 | 67 | 25             | 86 |       |                     | 5017 2         |
| OBS                     | 0225                | 19   | 53 | 36 | 59 | 26             | 12 |       |                     | 5007 8         |
| STD                     | 0250                | 18   | 80 | 36 | 54 | 26             | 27 | 0 701 |                     | 5002 3         |
| OBS                     | 0250                | 18   | 80 | 36 | 54 | 26             | 27 |       |                     | 5002 3         |
| STD                     | 0300                | 17   | 99 | 36 | 45 | 26             | 40 | 0 790 |                     | 4997 1         |
| OBS                     | 0300                | 17   | 99 | 36 | 45 | 26             | 40 |       |                     | 4997 1         |
| STD                     | 0400                | 16   | 82 | 36 | 28 | 26             | 56 | 0 958 |                     | 4990 5         |
| STD                     | 0500                | 14   | 92 | 36 | 00 | 26             | 78 | 1 111 |                     | 4975 5         |
| OBS                     | 0500                | 14   | 92 | 36 | 00 | 26             | 78 |       |                     | 4975 5         |
| STD                     | 0600                | 12   | 28 | 35 | 62 | 27             | 03 | 1 242 |                     | 4950 9         |
| OBS                     | 0600                | 12   | 28 | 35 | 62 | 27             | 03 |       |                     | 4950 9         |
| OBS                     | 0650                | 11   | 22 | 35 | 49 | 27             | 14 |       |                     | 4941 0         |
| OBS                     | 0700                | 10   | 38 | 35 | 38 | 27             | 20 |       |                     | 4933 5         |
| OBS                     | 0750                | 09   | 66 | 35 | 29 | 27             | 26 |       |                     | 4927 2         |
| STD                     | 0800                | 08   | 99 | 35 | 23 | 27             | 32 | 1 453 |                     | 4921 6         |
| OBS                     | 0800                | 08   | 99 | 35 | 23 | 27             | 32 |       |                     | 4921 6         |
| STD                     | 1000                | 05   | 35 | 35 | 06 | 27             | 70 | 1 598 |                     | 4885 2         |
| OBS                     | 1000                | 05   | 35 | 35 | 06 | 27             | 70 |       |                     | 4885 2         |
| STD                     | 1200                | 04   | 46 | 35 | 06 | 27             | 81 | 1 695 |                     | 4884 1         |
| OBS                     | 1300                | 04   | 12 | 35 | 05 | 27             | 83 |       |                     | 4885 0         |
| STD                     | 1500                | 03   | 75 | 35 | 03 | 27             | 86 | 1 818 |                     | 4890 8         |
| OBS                     | 1800                | 03   | 56 | 35 | 00 | 27             | 85 |       |                     | 4904 6         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0013    | 05   | 22  | 1962 | 10   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |            | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|------------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY $\Psi$      | WET $\Psi$ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 18   |                | 15           | 24              | 1          | 21            | 7       |       | 02   | 6    | 2    | 16    | 2    |      | 7     |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |         |    |                     |    |           |                          |                     |  |
|-------------------------|---------------------|-----------|----|---------|----|---------------------|----|-----------|--------------------------|---------------------|--|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |  |
| STD                     | 0000                | 25        | 12 | 36      | 57 | 24                  | 51 | 0 000     |                          | 5042 2              |  |
| OBS                     | 0000                | 25        | 12 | 36      | 57 | 24                  | 51 |           |                          | 5042 2              |  |
| STD                     | 0010†               | 24        | 96 | 36      | 58 | 24                  | 57 | 0 034     |                          | 5041 5              |  |
| STD                     | 0020†               | 24        | 83 | 36      | 59 | 24                  | 61 | 0 068     |                          | 5041 1              |  |
| STD                     | 0030†               | 24        | 72 | 36      | 58 | 24                  | 64 | 0 101     |                          | 5040 8              |  |
| OBS                     | 0040                | 24        | 63 | 36      | 61 | 24                  | 69 |           |                          | 5040 7              |  |
| STD                     | 0050                | 24        | 62 | 36      | 68 | 24                  | 75 | 0 167     |                          | 5041 4              |  |
| STD                     | 0075                | 24        | 52 | 36      | 81 | 24                  | 87 | 0 246     |                          | 5042 5              |  |
| OBS                     | 0075                | 24        | 52 | 36      | 81 | 24                  | 87 |           |                          | 5042 5              |  |
| STD                     | 0100                | 24        | 33 | 36      | 88 | 24                  | 99 | 0 323     |                          | 5042 6              |  |
| OBS                     | 0100                | 24        | 33 | 36      | 88 | 24                  | 99 |           |                          | 5042 6              |  |
| STD                     | 0150                | 24        | 09 | 36      | 97 | 25                  | 13 | 0 471     |                          | 5043 8              |  |
| OBS                     | 0150                | 24        | 09 | 36      | 97 | 25                  | 13 |           |                          | 5043 8              |  |
| OBS                     | 0175                | 23        | 51 | 36      | 98 | 25                  | 30 |           |                          | 5040 6              |  |
| STD                     | 0200                | 20        | 90 | 36      | 68 | 25                  | 82 | 0 600     |                          | 5019 0              |  |
| OBS                     | 0200                | 20        | 90 | 36      | 68 | 25                  | 82 |           |                          | 5019 0              |  |
| OBS                     | 0225                | 19        | 68 | 36      | 60 | 26                  | 08 |           |                          | 5009 2              |  |
| STD                     | 0250                | 18        | 91 | 36      | 54 | 26                  | 24 | 0 704     |                          | 5003 3              |  |
| OBS                     | 0250                | 18        | 91 | 36      | 54 | 26                  | 24 |           |                          | 5003 3              |  |
| STD                     | 0300                | 18        | 01 | 36      | 48 | 26                  | 42 | 0 794     |                          | 4997 4              |  |
| OBS                     | 0300                | 18        | 01 | 36      | 48 | 26                  | 42 |           |                          | 4997 4              |  |
| STD                     | 0400                | 16        | 70 | 36      | 26 | 26                  | 57 | 0 960     |                          | 4989 2              |  |
| STD                     | 0500                | 14        | 82 | 35      | 98 | 26                  | 78 | 1 112     |                          | 4974 4              |  |
| OBS                     | 0500                | 14        | 82 | 35      | 98 | 26                  | 78 |           |                          | 4974 4              |  |
| STD                     | 0600                | 12        | 38 | 35      | 65 | 27                  | 04 | 1 242     |                          | 4952 1              |  |
| OBS                     | 0600                | 12        | 38 | 35      | 65 | 27                  | 04 |           |                          | 4952 1              |  |
| OBS                     | 0650                | 11        | 49 | 35      | 50 | 27                  | 09 |           |                          | 4944 1              |  |
| OBS                     | 0700                | 10        | 53 | 35      | 38 | 27                  | 17 |           |                          | 4935 2              |  |
| OBS                     | 0750                | 09        | 68 | 35      | 29 | 27                  | 25 |           |                          | 4927 5              |  |
| STD                     | 0800                | 08        | 98 | 35      | 21 | 27                  | 31 | 1 455     |                          | 4921 4              |  |
| OBS                     | 0800                | 08        | 98 | 35      | 21 | 27                  | 31 |           |                          | 4921 4              |  |
| STD                     | 1000                | 05        | 35 | 35      | 05 | 27                  | 69 | 1 602     |                          | 4885 2              |  |
| OBS                     | 1000                | 05        | 35 | 35      | 05 | 27                  | 69 |           |                          | 4885 2              |  |
| STD                     | 1200                | 04        | 41 | 35      | 01 | 27                  | 77 | 1 702     |                          | 4883 2              |  |
| OBS                     | 1300                | 04        | 06 | 34      | 99 | 27                  | 79 |           |                          | 4883 9              |  |
| STD                     | 1500                | 03        | 63 | 34      | 97 | 27                  | 82 | 1 834     |                          | 4888 9              |  |
| OBS                     | 1800                | 03        | 61 | 34      | 97 | 27                  | 82 |           |                          | 4905 2              |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |
| 31947                | 0014    | 05   | 22  | 1962 | 13   | 24 40 N  | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|-----|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |     | COL.  | TRANS. |
| 04    | 18   |                | 16           | 24 1            | 21 4  |               | 01      | 8     | 1    | 16   | 2    |       |      | 7   |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |     |           |    |                     |     |           |                          |                     |
|-------------------------|---------------------|-----------|-----|-----------|----|---------------------|-----|-----------|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |     | S‰ O<br>↓ |    | σ <sub>t</sub><br>↓ |     | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>f</sub><br>↓ |
| STD                     | 0000                | 25        | 07  | 36        | 53 | 24                  | 50  | 0 000     |                          | 5041 7              |
| OBS                     | 0000                | 25        | 07  | 36        | 53 | 24                  | 50  |           |                          | 5041 7              |
| STD                     | 0010†               | 24        | 91  | 36        | 54 | 24                  | 55  | 0 034     |                          | 5041 0              |
| STD                     | 0020†               | 24        | 77  | 36        | 55 | 24                  | 60  | 0 068     |                          | 5040 5              |
| STD                     | 0030†               | 24        | 65  | 36        | 58 | 24                  | 66  | 0 101     |                          | 5040 2              |
| OBS                     | 0040                | 24        | 56  | 36        | 61 | 24                  | 71  |           |                          | 5040 2              |
| STD                     | 0050                | 24        | 54  | 36        | 68 | 24                  | 77  | 0 166     |                          | 5040 8              |
| STD                     | 0075                | 24        | 42  | 36        | 79 | 24                  | 89  | 0 245     |                          | 5041 6              |
| OBS                     | 0075                | 24        | 42  | 36        | 79 | 24                  | 89  |           |                          | 5041 6              |
| STD                     | 0100                | 24        | 22  | 36        | 83 | 24                  | 98  | 0 322     |                          | 5041 6              |
| OBS                     | 0100                | 24        | 22  | 36        | 83 | 24                  | 98  |           |                          | 5041 6              |
| STD                     | 0150                | 24        | 03  | 36        | 97 | 25                  | 14  | 0 470     |                          | 5043 3              |
| OBS                     | 0150                | 24        | 03  | 36        | 97 | 25                  | 14  |           |                          | 5043 3              |
| OBS                     | 0175                | 23        | 32  | 36        | 91 | 25                  | 31  |           |                          | 5038 8              |
| STD                     | 0200                | 20        | 90  | 36        | 68 | 25                  | 82  | 0 599     |                          | 5019 0              |
| OBS                     | 0200                | 20        | 90  | 36        | 68 | 25                  | 82  |           |                          | 5019 0              |
| OBS                     | 0225                | 19        | 65  | 36        | 60 | 26                  | 09  |           |                          | 5009 0              |
| STD                     | 0250                | 18        | 88  | 36        | 55 | 26                  | 25  | 0 702     |                          | 5003 1              |
| OBS                     | 0250                | 18        | 88  | 36        | 55 | 26                  | 25  |           |                          | 5003 1              |
| STD                     | 0300                | 18        | 10  | 36        | 47 | 26                  | 39  | 0 792     |                          | 4998 2              |
| OBS                     | 0300                | 18        | 10  | 36        | 47 | 26                  | 39  |           |                          | 4998 2              |
| STD                     | 0400                | 16        | 15  | 36        | 21 | 26                  | 66  | 0 956     |                          | 4983 5              |
| STD                     | 0500                | 14        | 28  | 35        | 93 | 26                  | 86  | 1 099     |                          | 4968 5              |
| OBS                     | 0500                | 15        | 67* | 35        | 93 | 26                  | 56* |           |                          |                     |
| STD                     | 0600                | 12        | 48  | 35        | 62 | 26                  | 99  | 1 227     |                          | 4953 1              |
| OBS                     | 0600                | 12        | 48  | 35        | 62 | 26                  | 99  |           |                          | 4953 1              |
| OBS                     | 0650                | 11        | 61  | 35        | 51 | 27                  | 08  |           |                          | 4945 6              |
| OBS                     | 0700                | 10        | 40  | 35        | 37 | 27                  | 19  |           |                          | 4933 7              |
| OBS                     | 0750                | 09        | 53  | 35        | 27 | 27                  | 26  |           |                          | 4925 6              |
| STD                     | 0800                | 08        | 97  | 35        | 23 | 27                  | 32  | 1 442     |                          | 4921 3              |
| OBS                     | 0800                | 08        | 97  | 35        | 23 | 27                  | 32  |           |                          | 4921 3              |
| STD                     | 1000                | 05        | 29  | 35        | 06 | 27                  | 71  | 1 586     |                          | 4884 4              |
| OBS                     | 1000                | 05        | 29  | 35        | 06 | 27                  | 71  |           |                          | 4884 4              |
| STD                     | 1200                | 04        | 40  | 35        | 02 | 27                  | 78  | 1 684     |                          | 4883 2              |
| OBS                     | 1300                | 04        | 07  | 35        | 00 | 27                  | 80  |           |                          | 4884 0              |
| STD                     | 1500                | 03        | 65  | 34        | 98 | 27                  | 83  | 1 814     |                          | 4889 2              |
| OBS                     | 1800                | 03        | 59  | 34        | 97 | 27                  | 83  |           |                          | 4904 9              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0015    | 05   | 22  | 1962 | 16   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 18   |                | 16           | 25              | 6     | 22            | 1       | 02    | 6    | 1    | 16   | 1     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |           |    |                     |    |           |                          |                     |
|-------------------------|---------------------|-----------|----|-----------|----|---------------------|----|-----------|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S‰ O<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 25        | 46 | 36        | 52 | 24                  | 37 | 0 000     |                          | 5044 6              |
| ORS                     | 0000                | 25        | 46 | 36        | 52 | 24                  | 37 |           |                          | 5044 6              |
| STD                     | 0010†               | 25        | 38 | 36        | 58 | 24                  | 44 | 0 035     |                          | 5044 7              |
| STD                     | 0020†               | 25        | 29 | 36        | 64 | 24                  | 51 | 0 070     |                          | 5044 8              |
| STD                     | 0030†               | 25        | 20 | 36        | 69 | 24                  | 58 | 0 104     |                          | 5044 9              |
| OBS                     | 0040                | 25        | 09 | 36        | 74 | 24                  | 65 |           |                          | 5044 7              |
| STD                     | 0050                | 24        | 99 | 36        | 78 | 24                  | 71 | 0 171     |                          | 5044 7              |
| STD                     | 0075                | 24        | 65 | 36        | 85 | 24                  | 87 | 0 251     |                          | 5043 7              |
| ORS                     | 0075                | 24        | 65 | 36        | 85 | 24                  | 87 |           |                          | 5043 7              |
| STD                     | 0100                | 24        | 20 | 36        | 89 | 25                  | 03 | 0 327     |                          | 5041 6              |
| ORS                     | 0100                | 24        | 20 | 36        | 89 | 25                  | 03 |           |                          | 5041 6              |
| STD                     | 0150                | 24        | 01 | 36        | 98 | 25                  | 16 | 0 473     |                          | 5043 2              |
| ORS                     | 0150                | 24        | 01 | 36        | 98 | 25                  | 16 |           |                          | 5043 2              |
| ORS                     | 0175                | 22        | 88 | 36        | 92 | 25                  | 44 |           |                          | 5035 2              |
| STD                     | 0200                | 20        | 78 | 36        | 66 | 25                  | 84 | 0 601     |                          | 5017 9              |
| OBS                     | 0200                | 20        | 78 | 36        | 66 | 25                  | 84 |           |                          | 5017 9              |
| OBS                     | 0225                | 19        | 42 | 36        | 59 | 26                  | 14 |           |                          | 5006 8              |
| STD                     | 0250                | 18        | 71 | 36        | 53 | 26                  | 28 | 0 703     |                          | 5001 4              |
| OBS                     | 0250                | 18        | 71 | 36        | 53 | 26                  | 28 |           |                          | 5001 4              |
| STD                     | 0300                | 18        | 00 | 36        | 46 | 26                  | 41 | 0 793     |                          | 4997 2              |
| OBS                     | 0300                | 18        | 00 | 36        | 46 | 26                  | 41 |           |                          | 4997 2              |
| STD                     | 0400                | 16        | 59 | 36        | 25 | 26                  | 59 | 0 959     |                          | 4988 1              |
| STD                     | 0500                | 14        | 69 | 35        | 96 | 26                  | 80 | 1 109     |                          | 4973 0              |
| ORS                     | 0500                | 14        | 69 | 35        | 96 | 26                  | 80 |           |                          | 4973 0              |
| STD                     | 0600                | 12        | 30 | 35        | 60 | 27                  | 01 | 1 240     |                          | 4951 0              |
| ORS                     | 0600                | 12        | 30 | 35        | 60 | 27                  | 01 |           |                          | 4951 0              |
| ORS                     | 0650                | 11        | 40 | 35        | 48 | 27                  | 09 |           |                          | 4943 0              |
| OBS                     | 0700                | 10        | 28 | 35        | 35 | 27                  | 20 |           |                          | 4932 2              |
| ORS                     | 0750                | 09        | 40 | 35        | 26 | 27                  | 28 |           |                          | 4924 0              |
| STD                     | 0800                | 08        | 78 | 35        | 21 | 27                  | 34 | 1 451     |                          | 4918 9              |
| ORS                     | 0800                | 08        | 78 | 35        | 21 | 27                  | 34 |           |                          | 4918 9              |
| STD                     | 1000                | 05        | 33 | 35        | 05 | 27                  | 70 | 1 594     |                          | 4884 9              |
| ORS                     | 1000                | 05        | 33 | 35        | 05 | 27                  | 70 |           |                          | 4884 9              |
| STD                     | 1200                | 04        | 44 | 35        | 01 | 27                  | 77 | 1 694     |                          | 4883 7              |
| ORS                     | 1300                | 04        | 11 | 35        | 00 | 27                  | 80 |           |                          | 4884 6              |
| STD                     | 1500                | 03        | 69 | 34        | 98 | 27                  | 82 | 1 827     |                          | 4889 7              |
| OBS                     | 1800                | 03        | 65 | 34        | 97 | 27                  | 82 |           |                          | 4905 7              |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0016    | 05   | 22  | 1962 | 19   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 14   |                | 15           | 26              | 1     | 22            | 2       |       | 01   | 0    | 0    | 15    | 2    |      | 7     |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |                |    |      |                      |                |
|-------------------------|---------------------|------|----|----|----------------|----|------|----------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ | σ <sub>t</sub> | ↓  | Σ ΔD | D <sub>2</sub> m/l/h | V <sub>t</sub> |
|                         |                     | ↓    | ↓  |    |                |    |      |                      |                |
| STD                     | 0000                | 25   | 74 | 36 | 57             | 24 | 32   | 0                    | 000            |
| OBS                     | 0000                | 25   | 74 | 36 | 57             | 24 | 32   |                      | 5046 9         |
| STD                     | 0010†               | 25   | 37 | 36 | 58             | 24 | 44   | 0                    | 036            |
| STD                     | 0020†               | 25   | 05 | 36 | 58             | 24 | 54   | 0                    | 070            |
| STD                     | 0030†               | 24   | 79 | 36 | 59             | 24 | 63   | 0                    | 104            |
| OBS                     | 0040                | 24   | 58 | 36 | 59             | 24 | 69   |                      | 5040 3         |
| STD                     | 0050                | 24   | 48 | 36 | 66             | 24 | 77   | 0                    | 169            |
| STD                     | 0075                | 24   | 29 | 36 | 78             | 24 | 92   | 0                    | 248            |
| OBS                     | 0075                | 24   | 29 | 36 | 78             | 24 | 92   |                      | 5040 6         |
| STD                     | 0100                | 24   | 18 | 36 | 85             | 25 | 01   | 0                    | 324            |
| OBS                     | 0100                | 24   | 18 | 36 | 85             | 25 | 01   |                      | 5041 3         |
| STD                     | 0150                | 23   | 92 | 36 | 97             | 25 | 18   | 0                    | 470            |
| OBS                     | 0150                | 23   | 92 | 36 | 97             | 25 | 18   |                      | 5042 4         |
| OBS                     | 0175                | 22   | 59 | 36 | 87             | 25 | 49   |                      | 5032 7         |
| STD                     | 0200                | 20   | 96 | 36 | 68             | 25 | 80   | 0                    | 599            |
| OBS                     | 0200                | 20   | 96 | 36 | 68             | 25 | 80   |                      | 5019 5         |
| OBS                     | 0225                | 19   | 41 | 36 | 58             | 26 | 14   |                      | 5006 7         |
| STD                     | 0250                | 18   | 84 | 36 | 54             | 26 | 26   | 0                    | 702            |
| OBS                     | 0250                | 18   | 84 | 36 | 54             | 26 | 26   |                      | 5002 7         |
| STD                     | 0300                | 18   | 00 | 36 | 46             | 26 | 41   | 0                    | 792            |
| OBS                     | 0300                | 18   | 00 | 36 | 46             | 26 | 41   |                      | 4997 2         |
| STD                     | 0400                | 16   | 66 | 36 | 25             | 26 | 57   | 0                    | 959            |
| STD                     | 0500                | 14   | 69 | 35 | 96             | 26 | 80   | 1                    | 110            |
| OBS                     | 0500                | 14   | 69 | 35 | 96             | 26 | 80   |                      | 4973 0         |
| STD                     | 0600                | 12   | 09 | 35 | 58             | 27 | 04   | 1                    | 239            |
| OBS                     | 0600                | 12   | 09 | 35 | 58             | 27 | 04   |                      | 4948 6         |
| OBS                     | 0650                | 11   | 12 | 35 | 45             | 27 | 12   |                      | 4939 7         |
| OBS                     | 0700                | 10   | 12 | 35 | 33             | 27 | 21   |                      | 4930 2         |
| OBS                     | 0750                | 09   | 23 | 35 | 25             | 27 | 30   |                      | 4921 9         |
| STD                     | 0800                | 08   | 65 | 35 | 21             | 27 | 36   | 1                    | 446            |
| OBS                     | 0800                | 08   | 65 | 35 | 21             | 27 | 36   |                      | 4917 3         |
| STD                     | 1000                | 05   | 19 | 35 | 04             | 27 | 71   | 1                    | 586            |
| OBS                     | 1000                | 05   | 19 | 35 | 04             | 27 | 71   |                      | 4883 0         |
| STD                     | 1200                | 04   | 40 | 35 | 01             | 27 | 77   | 1                    | 684            |
| OBS                     | 1300                | 04   | 10 | 35 | 00             | 27 | 80   |                      | 4883 1         |
| STD                     | 1500                | 03   | 72 | 34 | 98             | 27 | 82   | 1                    | 817            |
| OBS                     | 1800                | 03   | 65 | 34 | 97             | 27 | 82   |                      | 4884 5         |
|                         |                     |      |    |    |                |    |      |                      | 4890 2         |
|                         |                     |      |    |    |                |    |      |                      | 4905 7         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |  |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|--|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |  |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |  | LONGITUDE |                               |                         |
| 31947                | 0017    | 05   | 22  | 1962 | 23   | 24 40 N  |  | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |            | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|------------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY $\Psi$      | WET $\Psi$ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 18   |                | 14           | 25.6            | 21.7       |               | 02      | 6     | 2    | 13   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |          |    |                     |    |           |             |                     |
|-------------------------|---------------------|-----------|----|----------|----|---------------------|----|-----------|-------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S ‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | Q ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 25        | 99 | 36       | 62 | 24                  | 28 | 0 000     |             | 5048 9              |
| OBS                     | 0000                | 25        | 99 | 36       | 62 | 24                  | 28 |           |             | 5048 9              |
| STD                     | 0010†               | 25        | 44 | 36       | 62 | 24                  | 45 | 0 036     |             | 5045 4              |
| STD                     | 0020†               | 24        | 99 | 36       | 62 | 24                  | 59 | 0 070     |             | 5042 5              |
| STD                     | 0030†               | 24        | 64 | 36       | 62 | 24                  | 70 | 0 103     |             | 5040 3              |
| OBS                     | 0040                | 24        | 39 | 36       | 62 | 24                  | 77 |           |             | 5038 9              |
| STD                     | 0050                | 24        | 38 | 36       | 68 | 24                  | 82 | 0 168     |             | 5039 6              |
| STD                     | 0075                | 24        | 32 | 36       | 80 | 24                  | 93 | 0 245     |             | 5040 9              |
| OBS                     | 0075                | 24        | 32 | 36       | 80 | 24                  | 93 |           |             | 5040 9              |
| STD                     | 0100                | 24        | 23 | 36       | 87 | 25                  | 01 | 0 321     |             | 5041 8              |
| OBS                     | 0100                | 24        | 23 | 36       | 87 | 25                  | 01 |           |             | 5041 8              |
| STD                     | 0150                | 23        | 99 | 36       | 97 | 25                  | 16 | 0 468     |             | 5043 0              |
| OBS                     | 0150                | 23        | 99 | 36       | 97 | 25                  | 16 |           |             | 5043 0              |
| OBS                     | 0175                | 23        | 23 | 36       | 94 | 25                  | 36 |           |             | 5038 1              |
| STD                     | 0200                | 21        | 09 | 36       | 70 | 25                  | 78 | 0 598     |             | 5020 7              |
| OBS                     | 0200                | 21        | 09 | 36       | 70 | 25                  | 78 |           |             | 5020 7              |
| OBS                     | 0225                | 19        | 48 | 36       | 59 | 26                  | 13 |           |             | 5007 4              |
| STD                     | 0250                | 18        | 73 | 36       | 53 | 26                  | 28 | 0 701     |             | 5001 6              |
| OBS                     | 0250                | 18        | 73 | 36       | 53 | 26                  | 28 |           |             | 5001 6              |
| STD                     | 0300                | 17        | 99 | 36       | 46 | 26                  | 41 | 0 791     |             | 4997 1              |
| OBS                     | 0300                | 17        | 99 | 36       | 46 | 26                  | 41 |           |             | 4997 1              |
| STD                     | 0400                | 16        | 63 | 36       | 25 | 26                  | 58 | 0 957     |             | 4988 5              |
| STD                     | 0500                | 14        | 69 | 35       | 96 | 26                  | 80 | 1 107     |             | 4973 0              |
| OBS                     | 0500                | 14        | 69 | 35       | 96 | 26                  | 80 |           |             | 4973 0              |
| STD                     | 0600                | 12        | 18 | 35       | 59 | 27                  | 03 | 1 237     |             | 4949 6              |
| OBS                     | 0600                | 12        | 18 | 35       | 59 | 27                  | 03 |           |             | 4949 6              |
| OBS                     | 0650                | 11        | 28 | 35       | 47 | 27                  | 11 |           |             | 4941 6              |
| OBS                     | 0700                | 10        | 15 | 35       | 35 | 27                  | 22 |           |             | 4930 6              |
| OBS                     | 0750                | 09        | 28 | 35       | 25 | 27                  | 29 |           |             | 4922 5              |
| STD                     | 0800                | 08        | 73 | 35       | 21 | 27                  | 35 | 1 446     |             | 4918 3              |
| OBS                     | 0800                | 08        | 73 | 35       | 21 | 27                  | 35 |           |             | 4918 3              |
| STD                     | 1000                | 05        | 14 | 35       | 04 | 27                  | 71 | 1 587     |             | 4882 3              |
| OBS                     | 1000                | 05        | 14 | 35       | 04 | 27                  | 71 |           |             | 4882 3              |
| STD                     | 1200                | 04        | 35 | 35       | 00 | 27                  | 77 | 1 685     |             | 4882 4              |
| OBS                     | 1300                | 04        | 06 | 34       | 99 | 27                  | 79 |           |             | 4883 9              |
| STD                     | 1500                | 03        | 69 | 34       | 97 | 27                  | 82 | 1 818     |             | 4889 7              |
| OBS                     | 1800                | 03        | 66 | 34       | 97 | 27                  | 82 |           |             | 4905 9              |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |  |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|--|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |  |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |  |  |
| 31947                | 0018    | 05   | 23  | 1962 | 01   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |  |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|-----|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |     | COL.  | TRANS. |
| 05    | 14   |                | 05           | 25 0            | 22 0  |               | 01      | 6     | 3    | 15   | 2    |       |      | 7   |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                  |    |       |                      |
|-------------------------|---------------------|------|----|-----|----|------------------|----|-------|----------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> ↓ |    | Σ ΔD  | O <sub>2</sub> M I/I |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓                | ↓  |       |                      |
| STD                     | 0000                | 25   | 38 | 36  | 56 | 24               | 42 | 0 000 | 5044 1               |
| OBS                     | 0000                | 25   | 38 | 36  | 56 | 24               | 42 |       | 5044 1               |
| STD                     | 0010†               | 25   | 06 | 36  | 57 | 24               | 53 | 0 035 | 5042 3               |
| STD                     | 0020†               | 24   | 79 | 36  | 58 | 24               | 62 | 0 068 | 5040 8               |
| STD                     | 0030†               | 24   | 57 | 36  | 60 | 24               | 70 | 0 101 | 5039 7               |
| OBS                     | 0040                | 24   | 40 | 36  | 62 | 24               | 77 |       | 5039 0               |
| STD                     | 0050                | 24   | 31 | 36  | 65 | 24               | 82 | 0 166 | 5038 9               |
| STD                     | 0075                | 24   | 20 | 36  | 74 | 24               | 92 | 0 244 | 5039 7               |
| OBS                     | 0075                | 24   | 20 | 36  | 74 | 24               | 92 |       | 5039 7               |
| STD                     | 0100                | 24   | 28 | 36  | 87 | 24               | 99 | 0 320 | 5042 2               |
| OBS                     | 0100                | 24   | 28 | 36  | 87 | 24               | 99 |       | 5042 2               |
| STD                     | 0150                | 24   | 02 | 36  | 96 | 25               | 14 | 0 468 | 5043 2               |
| OBS                     | 0150                | 24   | 02 | 36  | 96 | 25               | 14 |       | 5043 2               |
| OBS                     | 0175                | 23   | 18 | 36  | 93 | 25               | 36 |       | 5037 7               |
| STD                     | 0200                | 20   | 96 | 36  | 68 | 25               | 80 | 0 597 | 5019 5               |
| OBS                     | 0200                | 20   | 96 | 36  | 68 | 25               | 80 |       | 5019 5               |
| OBS                     | 0225                | 19   | 67 | 36  | 62 | 26               | 10 |       | 5009 2               |
| STD                     | 0250                | 18   | 94 | 36  | 57 | 26               | 25 | 0 701 | 5003 7               |
| OBS                     | 0250                | 18   | 94 | 36  | 57 | 26               | 25 |       | 5003 7               |
| STD                     | 0300                | 18   | 04 | 36  | 47 | 26               | 40 | 0 791 | 4997 6               |
| OBS                     | 0300                | 18   | 04 | 36  | 47 | 26               | 40 |       | 4997 6               |
| STD                     | 0400                | 16   | 82 | 36  | 27 | 26               | 55 | 0 959 | 4990 4               |
| STD                     | 0500                | 14   | 88 | 35  | 98 | 26               | 77 | 1 112 | 4975 0               |
| OBS                     | 0500                | 14   | 88 | 35  | 98 | 26               | 77 |       | 4975 0               |
| STD                     | 0600                | 12   | 21 | 35  | 60 | 27               | 03 | 1 243 | 4950 0               |
| OBS                     | 0600                | 12   | 21 | 35  | 60 | 27               | 03 |       | 4950 0               |
| OBS                     | 0650                | 11   | 12 | 35  | 44 | 27               | 11 |       | 4939 6               |
| OBS                     | 0700                | 10   | 06 | 35  | 33 | 27               | 22 |       | 4929 5               |
| OBS                     | 0750                | 09   | 20 | 35  | 25 | 27               | 30 |       | 4921 5               |
| STD                     | 0800                | 08   | 46 | 35  | 20 | 27               | 38 | 1 448 | 4914 9               |
| OBS                     | 0800                | 08   | 46 | 35  | 20 | 27               | 38 |       | 4914 9               |
| STD                     | 1000                | 05   | 20 | 35  | 04 | 27               | 70 | 1 586 | 4883 1               |
| OBS                     | 1000                | 05   | 20 | 35  | 04 | 27               | 70 |       | 4883 1               |
| STD                     | 1200                | 04   | 33 | 35  | 00 | 27               | 77 | 1 684 | 4882 1               |
| OBS                     | 1300                | 04   | 02 | 34  | 99 | 27               | 80 |       | 4883 3               |
| STD                     | 1500                | 03   | 88 | 34  | 97 | 27               | 80 | 1 821 | 4892 3               |
| OBS                     | 1800                | 03   | 67 | 34  | 97 | 27               | 82 |       | 4906 0               |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO   | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0019    | 05   | 23  | 1962 | 04   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|-----|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR | AMT. | DIR   | AMT. |      | COL.  | TRANS. |
| 02    | 27   |                | 16           | 25 0            | 22 0  |               | 02      |       | 0    | 19  | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |    |                |    |     |     |                    |   |                |
|-------------------------|---------------------|------|----|----|----|----------------|----|-----|-----|--------------------|---|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ |    | σ <sub>t</sub> |    | ΣΔD |     | Q <sub>σm</sub> /l |   | W <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓  | ↓  | ↓              | ↓  | ↓   | ↓   | ↓                  | ↓ | ↓              |
| STD                     | 0000                | 25   | 68 | 36 | 60 | 24             | 36 | 0   | 000 |                    |   | 5046 5         |
| ORS                     | 0000                | 25   | 68 | 36 | 60 | 24             | 36 |     |     |                    |   | 5046 5         |
| STD                     | 0010†               | 25   | 34 | 36 | 61 | 24             | 47 | 0   | 035 |                    |   | 5044 6         |
| STD                     | 0020†               | 25   | 04 | 36 | 62 | 24             | 57 | 0   | 069 |                    |   | 5042 8         |
| STD                     | 0030†               | 24   | 79 | 36 | 61 | 24             | 64 | 0   | 103 |                    |   | 5041 4         |
| ORS                     | 0040                | 24   | 59 | 36 | 63 | 24             | 72 |     |     |                    |   | 5040 5         |
| STD                     | 0050                | 24   | 47 | 36 | 66 | 24             | 78 | 0   | 168 |                    |   | 5040 2         |
| STD                     | 0075                | 24   | 27 | 36 | 74 | 24             | 90 | 0   | 247 |                    |   | 5040 3         |
| ORS                     | 0075                | 24   | 27 | 36 | 74 | 24             | 90 |     |     |                    |   | 5040 3         |
| STD                     | 0100                | 24   | 22 | 36 | 83 | 24             | 98 | 0   | 323 |                    |   | 5041 6         |
| ORS                     | 0100                | 24   | 22 | 36 | 83 | 24             | 98 |     |     |                    |   | 5041 6         |
| STD                     | 0150                | 24   | 03 | 36 | 94 | 25             | 12 | 0   | 472 |                    |   | 5043 2         |
| ORS                     | 0150                | 24   | 03 | 36 | 94 | 25             | 12 |     |     |                    |   | 5043 2         |
| ORS                     | 0175                | 23   | 39 | 36 | 95 | 25             | 32 |     |     |                    |   | 5039 5         |
| STD                     | 0200                | 21   | 50 | 36 | 72 | 25             | 68 | 0   | 605 |                    |   | 5024 3         |
| ORS                     | 0200                | 21   | 50 | 36 | 72 | 25             | 68 |     |     |                    |   | 5024 3         |
| ORS                     | 0225                | 19   | 70 | 36 | 59 | 26             | 07 |     |     |                    |   | 5009 4         |
| STD                     | 0250                | 18   | 91 | 36 | 55 | 26             | 25 | 0   | 711 |                    |   | 5003 4         |
| ORS                     | 0250                | 18   | 91 | 36 | 55 | 26             | 25 |     |     |                    |   | 5003 4         |
| STD                     | 0300                | 18   | 09 | 36 | 47 | 26             | 39 | 0   | 802 |                    |   | 4998 1         |
| ORS                     | 0300                | 18   | 09 | 36 | 47 | 26             | 39 |     |     |                    |   | 4998 1         |
| STD                     | 0400                | 16   | 56 | 36 | 22 | 26             | 57 | 0   | 969 |                    |   | 4987 7         |
| STD                     | 0500                | 14   | 57 | 35 | 92 | 26             | 79 | 1   | 120 |                    |   | 4971 6         |
| ORS                     | 0500                | 14   | 57 | 35 | 92 | 26             | 79 |     |     |                    |   | 4971 6         |
| STD                     | 0600                | 12   | 12 | 35 | 57 | 27             | 03 | 1   | 250 |                    |   | 4948 9         |
| ORS                     | 0600                | 12   | 12 | 35 | 57 | 27             | 03 |     |     |                    |   | 4948 9         |
| ORS                     | 0650                | 11   | 05 | 35 | 44 | 27             | 13 |     |     |                    |   | 4938 8         |
| ORS                     | 0700                | 09   | 85 | 35 | 30 | 27             | 23 |     |     |                    |   | 4926 8         |
| ORS                     | 0750                | 09   | 15 | 35 | 24 | 27             | 30 |     |     |                    |   | 4920 8         |
| STD                     | 0800                | 08   | 57 | 35 | 20 | 27             | 36 | 1   | 458 |                    |   | 4916 3         |
| ORS                     | 0800                | 08   | 57 | 35 | 20 | 27             | 36 |     |     |                    |   | 4916 3         |
| STD                     | 1000                | 05   | 24 | 35 | 05 | 27             | 71 | 1   | 597 |                    |   | 4883 7         |
| ORS                     | 1000                | 05   | 24 | 35 | 05 | 27             | 71 |     |     |                    |   | 4883 7         |
| STD                     | 1200                | 04   | 35 | 35 | 07 | 27             | 79 | 1   | 694 |                    |   | 4882 5         |
| ORS                     | 1300                | 04   | 03 | 35 | 01 | 27             | 81 |     |     |                    |   | 4883 5         |
| STD                     | 1500                | 03   | 88 | 34 | 99 | 27             | 81 | 1   | 827 |                    |   | 4892 4         |
| ORS                     | 1800                | 03   | 66 | 34 | 97 | 27             | 82 |     |     |                    |   | 4905 9         |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |                               |                         |    |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------------------------------|-------------------------|----|
| NODC<br>REF<br>NO.   | STATION | DATE |     |      |      | POSITION |       |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |                               |                         |    |
| 31947                | 0020    | 05   | 23  | 1962 | 07   | 24       | 40' N | 077       | 35' W                         | 1850                    | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |       |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|-------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL   | TRANS |
| 00    | 00   |                | 15           | 25 0            | 22 1  |               | 01      | 0     | 4    | 15   | 1    |       |      | 7    |       |       |

| SUBSURFACE OBSERVATIONS |                     |           |         |                     |           |                          |                     |
|-------------------------|---------------------|-----------|---------|---------------------|-----------|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ | S‰<br>↓ | σ <sub>t</sub><br>↓ | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 25 47     | 36 59   | 24 42               | 0 000     |                          | 5044 9              |
| OBS                     | 0000                | 25 47     | 36 59   | 24 42               |           |                          | 5044 9              |
| STD                     | 0010†               | 25 19     | 36 60   | 24 51               | 0 035     |                          | 5043 4              |
| STD                     | 0020†               | 24 95     | 36 62   | 24 60               | 0 069     |                          | 5042 2              |
| STD                     | 0030†               | 24 74     | 36 63   | 24 67               | 0 102     |                          | 5041 1              |
| OBS                     | 0040                | 24 57     | 36 65   | 24 74               |           |                          | 5040 4              |
| STD                     | 0050                | 24 46     | 36 67   | 24 79               | 0 167     |                          | 5040 2              |
| STD                     | 0075                | 24 27     | 36 73   | 24 89               | 0 245     |                          | 5040 2              |
| OBS                     | 0075                | 24 27     | 36 73   | 24 89               |           |                          | 5040 2              |
| STD                     | 0100                | 24 21     | 36 79   | 24 95               | 0 322     |                          | 5041 3              |
| OBS                     | 0100                | 24 21     | 36 79   | 24 95               |           |                          | 5041 3              |
| STD                     | 0150                | 24 03     | 36 89   | 25 08               | 0 472     |                          | 5043 0              |
| OBS                     | 0150                | 24 03     | 36 89   | 25 08               |           |                          | 5043 0              |
| OBS                     | 0175                | 23 21     | 36 94   | 25 36               |           |                          | 5038 0              |
| STD                     | 0200                | 21 06     | 36 68   | 25 77               | 0 604     |                          | 5020 4              |
| OBS                     | 0200                | 21 06     | 36 68   | 25 77               |           |                          | 5020 4              |
| OBS                     | 0225                | 19 80     | 36 60   | 26 05               |           |                          | 5010 3              |
| STD                     | 0250                | 18 97     | 36 55   | 26 23               | 0 709     |                          | 5003 9              |
| OBS                     | 0250                | 18 97     | 36 55   | 26 23               |           |                          | 5003 9              |
| STD                     | 0300                | 18 07     | 36 46   | 26 39               | 0 800     |                          | 4997 9              |
| OBS                     | 0300                | 18 07     | 36 46   | 26 39               |           |                          | 4997 9              |
| STD                     | 0400                | 16 73     | 36 29   | 26 55               | 0 968     |                          | 4989 5              |
| STD                     | 0500                | 14 76     | 35 96   | 26 78               | 1 120     |                          | 4973 7              |
| OBS                     | 0500                | 14 76     | 35 96   | 26 78               |           |                          | 4973 7              |
| STD                     | 0600                | 12 15     | 35 58   | 27 03               | 1 251     |                          | 4949 3              |
| OBS                     | 0600                | 12 15     | 35 58   | 27 03               |           |                          | 4949 3              |
| OBS                     | 0650                | 11 01     | 35 43   | 27 13               |           |                          | 4938 3              |
| OBS                     | 0700                | 10 09     | 35 33   | 27 21               |           |                          | 4929 8              |
| OBS                     | 0750                | 08 98     | 35 22   | 27 31               |           |                          | 4918 7              |
| STD                     | 0800                | 08 52     | 35 20   | 27 37               | 1 457     |                          | 4915 7              |
| OBS                     | 0800                | 08 52     | 35 20   | 27 37               |           |                          | 4915 7              |
| STD                     | 1000                | 05 17     | 35 04   | 27 71               | 1 596     |                          | 4882 7              |
| OBS                     | 1000                | 05 17     | 35 04   | 27 71               |           |                          | 4882 7              |
| STD                     | 1200                | 04 40     | 35 00   | 27 76               | 1 695     |                          | 4883 1              |
| OBS                     | 1300                | 04 11     | 34 99   | 27 79               |           |                          | 4884 6              |
| STD                     | 1500                | 03 74     | 34 97   | 27 81               | 1 830     |                          | 4890 4              |
| OBS                     | 1800                | 03 67     | 34 97   | 27 82               |           |                          | 4906 0              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0021    | 05   | 23  | 1962 | 10   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |            | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|------------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY $\Psi$      | WET $\Psi$ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 00    | 00   |                | 15           | 24              | 9          | 22            | 1       | 02    | 6    | 5    | 00   | 0     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |                |              |              |              |              |              |             |                       |        |
|-------------------------|---------------------|----------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------------------|--------|
|                         | SAMPLE<br>DEPTH (M) | T $^{\circ}$ C |              | S $\%$ O     |              | $\sigma_t$   |              | $\Sigma$ AD | $\sigma_{\sigma}$ 1/1 | $V_t$  |
|                         |                     | $\downarrow$   | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ | $\downarrow$ |             |                       |        |
| STD                     | 0000                | 25             | 58           | 36           | 68           | 24           | 45           | 0 000       |                       | 5046 1 |
| OBS                     | 0000                | 25             | 58           | 36           | 68           | 24           | 45           |             |                       | 5046 1 |
| STD                     | 0010†               | 25             | 23           | 36           | 64           | 24           | 53           | 0 035       |                       | 5043 8 |
| STD                     | 0020†               | 24             | 93           | 36           | 62           | 24           | 61           | 0 068       |                       | 5042 0 |
| STD                     | 0030†               | 24             | 68           | 36           | 62           | 24           | 68           | 0 102       |                       | 5040 6 |
| OBS                     | 0040                | 24             | 49           | 36           | 60           | 24           | 73           |             |                       | 5039 6 |
| STD                     | 0050                | 24             | 40           | 36           | 62           | 24           | 77           | 0 166       |                       | 5039 5 |
| STD                     | 0075                | 24             | 23           | 36           | 68           | 24           | 86           | 0 246       |                       | 5039 7 |
| OBS                     | 0075                | 24             | 23           | 36           | 68           | 24           | 86           |             |                       | 5039 7 |
| STD                     | 0100                | 24             | 16           | 36           | 78           | 24           | 96           | 0 323       |                       | 5040 9 |
| OBS                     | 0100                | 24             | 16           | 36           | 78           | 24           | 96           |             |                       | 5040 9 |
| STD                     | 0150                | 24             | 00           | 36           | 90           | 25           | 10           | 0 472       |                       | 5042 8 |
| OBS                     | 0150                | 24             | 00           | 36           | 90           | 25           | 10           |             |                       | 5042 8 |
| OBS                     | 0175                | 23             | 38           | 36           | 95           | 25           | 32           |             |                       | 5039 4 |
| STD                     | 0200                | 21             | 80           | 36           | 78           | 25           | 64           | 0 606       |                       | 5027 1 |
| OBS                     | 0200                | 21             | 80           | 36           | 78           | 25           | 64           |             |                       | 5027 1 |
| OBS                     | 0225                | 20             | 09           | 36           | 62           | 25           | 99           |             |                       | 5013 0 |
| STD                     | 0250                | 19             | 09           | 36           | 56           | 26           | 21           | 0 715       |                       | 5005 1 |
| OBS                     | 0250                | 19             | 09           | 36           | 56           | 26           | 21           |             |                       | 5005 1 |
| STD                     | 0300                | 18             | 25           | 36           | 48           | 26           | 36           | 0 607       |                       | 4999 6 |
| OBS                     | 0300                | 18             | 25           | 36           | 48           | 26           | 36           |             |                       | 4999 6 |
| STD                     | 0400                | 16             | 99           | 36           | 28           | 26           | 52           | 0 979       |                       | 4992 1 |
| STD                     | 0500                | 15             | 03           | 36           | 01           | 26           | 76           | 1 134       |                       | 4976 7 |
| OBS                     | 0500                | 15             | 03           | 36           | 01           | 26           | 76           |             |                       | 4976 7 |
| STD                     | 0600                | 12             | 37           | 35           | 67           | 27           | 06           | 1 265       |                       | 4952 1 |
| OBS                     | 0600                | 12             | 37           | 35           | 67           | 27           | 06           |             |                       | 4952 1 |
| OBS                     | 0650                | 11             | 26           | 35           | 48           | 27           | 12           |             |                       | 4941 4 |
| OBS                     | 0700                | 10             | 24           | 35           | 34           | 27           | 19           |             |                       | 4931 6 |
| OBS                     | 0750                | 09             | 24           | 35           | 26           | 27           | 30           |             |                       | 4922 0 |
| STD                     | 0800                | 08             | 56           | 35           | 19           | 27           | 36           | 1 470       |                       | 4916 1 |
| OBS                     | 0800                | 08             | 56           | 35           | 19           | 27           | 36           |             |                       | 4916 1 |
| STD                     | 1000                | 05             | 04           | 35           | 03           | 27           | 72           | 1 609       |                       | 4880 9 |
| OBS                     | 1000                | 05             | 04           | 35           | 03           | 27           | 72           |             |                       | 4880 9 |
| STD                     | 1200                | 04             | 29           | 35           | 00           | 27           | 78           | 1 706       |                       | 4881 6 |
| OBS                     | 1300                | 04             | 02           | 34           | 99           | 27           | 80           |             |                       | 4883 3 |
| STD                     | 1500                | 03             | 68           | 34           | 98           | 27           | 82           | 1 836       |                       | 4889 6 |
| OBS                     | 1800                | 03             | 68           | 34           | 97           | 27           | 82           |             |                       | 4906 1 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |  |
| 31947                | 0022    | 05   | 23  | 1962 | 13   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA. |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 16   |                | 17           | 25 6            | 22 2  |               | 01      | 8     | 1    | 16   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                  |      |                     |                  |
|-------------------------|---------------------|------|----|-----|----|------------------|------|---------------------|------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> ↓ | Σ ΔD | O <sub>2</sub> ml/l | V <sub>1</sub> ↓ |
|                         |                     | ↓    | ↓  | ↓   | ↓  |                  |      |                     |                  |
| STD                     | 0000                | 25   | 52 | 36  | 72 | 24               | 50   | 0 000               | 5045 8           |
| OBS                     | 0000                | 25   | 52 | 36  | 72 | 24               | 50   |                     | 5045 8           |
| STD                     | 0010†               | 25   | 39 | 36  | 74 | 24               | 56   | 0 034               | 5045 4           |
| STD                     | 0020†               | 25   | 25 | 36  | 74 | 24               | 60   | 0 068               | 5044 9           |
| STD                     | 0030†               | 25   | 10 | 36  | 75 | 24               | 65   | 0 101               | 5044 3           |
| OBS                     | 0040                | 24   | 93 | 36  | 76 | 24               | 71   |                     | 5043 6           |
| STD                     | 0050                | 24   | 67 | 36  | 72 | 24               | 76   | 0 166               | 5042 0           |
| STD                     | 0075                | 24   | 23 | 36  | 69 | 24               | 87   | 0 246               | 5039 8           |
| OBS                     | 0075                | 24   | 23 | 36  | 69 | 24               | 87   |                     | 5039 8           |
| STD                     | 0100                | 24   | 10 | 36  | 76 | 24               | 96   | 0 323               | 5040 4           |
| OBS                     | 0100                | 24   | 10 | 36  | 76 | 24               | 96   |                     | 5040 4           |
| STD                     | 0150                | 24   | 09 | 36  | 93 | 25               | 09   | 0 472               | 5043 6           |
| OBS                     | 0150                | 24   | 09 | 36  | 93 | 25               | 09   |                     | 5043 6           |
| OBS                     | 0175                | 23   | 60 | 36  | 91 | 25               | 23   |                     | 5041 0           |
| STD                     | 0200                | 22   | 40 | 36  | 82 | 25               | 51   | 0 610               | 5032 2           |
| OBS                     | 0200                | 22   | 40 | 36  | 82 | 25               | 51   |                     | 5032 2           |
| OBS                     | 0225                | 20   | 54 | 36  | 65 | 25               | 89   |                     | 5017 1           |
| STD                     | 0250                | 19   | 18 | 36  | 56 | 26               | 18   | 0 722               | 5005 9           |
| OBS                     | 0250                | 19   | 18 | 36  | 56 | 26               | 18   |                     | 5005 9           |
| STD                     | 0300                | 18   | 27 | 36  | 49 | 26               | 36   | 0 815               | 4999 9           |
| OBS                     | 0300                | 18   | 27 | 36  | 49 | 26               | 36   |                     | 4999 9           |
| STD                     | 0400                | 16   | 86 | 36  | 28 | 26               | 55   | 0 985               | 4990 9           |
| STD                     | 0500                | 14   | 88 | 35  | 99 | 26               | 78   | 1 138               | 4975 1           |
| OBS                     | 0500                | 14   | 88 | 35  | 99 | 26               | 78   |                     | 4975 1           |
| STD                     | 0600                | 12   | 34 | 35  | 61 | 27               | 01   | 1 270               | 4951 5           |
| OBS                     | 0600                | 12   | 34 | 35  | 61 | 27               | 01   |                     | 4951 5           |
| OBS                     | 0650                | 11   | 33 | 35  | 47 | 27               | 10   |                     | 4942 2           |
| OBS                     | 0700                | 10   | 21 | 35  | 35 | 27               | 21   |                     | 4931 3           |
| OBS                     | 0750                | 09   | 15 | 35  | 25 | 27               | 31   |                     | 4920 9           |
| STD                     | 0800                | 08   | 44 | 35  | 20 | 27               | 38   | 1 476               | 4914 7           |
| OBS                     | 0800                | 08   | 44 | 35  | 20 | 27               | 38   |                     | 4914 7           |
| STD                     | 1000                | 05   | 06 | 35  | 04 | 27               | 72   | 1 612               | 4881 2           |
| OBS                     | 1000                | 05   | 06 | 35  | 04 | 27               | 72   |                     | 4881 2           |
| STD                     | 1200                | 04   | 32 | 35  | 00 | 27               | 77   | 1 708               | 4882 0           |
| OBS                     | 1300                | 04   | 05 | 34  | 99 | 27               | 79   |                     | 4883 7           |
| STD                     | 1500                | 03   | 71 | 34  | 98 | 27               | 82   | 1 840               | 4890 0           |
| OBS                     | 1800                | 03   | 68 | 34  | 98 | 27               | 82   |                     | 4906 2           |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                        |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX<br>SAMPLE<br>DEPTH |
|                      |         | MO   | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                        |
| 31947                | 0023    | 05   | 23  | 1962 | 16   | 24       | 40 N | 077       | 35 W | 1850                          | 18                     |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY °           | WET ° |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 18   |                | 17           | 25 6            | 22 2  |               | 02      | 0     | 0    | 16   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |         |    |                     |    |           |                          |                     |
|-------------------------|---------------------|-----------|----|---------|----|---------------------|----|-----------|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>r</sub><br>↓ |
| STD                     | 0000                | 25        | 72 | 36      | 52 | 24                  | 29 | 0 000     |                          | 5046 6              |
| OBS                     | 0000                | 25        | 72 | 36      | 52 | 24                  | 29 |           |                          | 5046 6              |
| STD                     | 0010†               | 25        | 53 | 36      | 57 | 24                  | 38 | 0 036     |                          | 5045 8              |
| STD                     | 0020†               | 25        | 34 | 36      | 62 | 24                  | 48 | 0 071     |                          | 5045 1              |
| STD                     | 0030†               | 25        | 13 | 36      | 65 | 24                  | 57 | 0 105     |                          | 5044 2              |
| OBS                     | 0040                | 24        | 92 | 36      | 68 | 24                  | 66 |           |                          | 5043 2              |
| STD                     | 0050                | 24        | 58 | 36      | 69 | 24                  | 77 | 0 171     |                          | 5041 2              |
| STD                     | 0075                | 24        | 12 | 36      | 72 | 24                  | 93 | 0 250     |                          | 5039 0              |
| OBS                     | 0075                | 24        | 12 | 36      | 72 | 24                  | 93 |           |                          | 5039 0              |
| STD                     | 0100                | 24        | 23 | 36      | 76 | 24                  | 92 | 0 327     |                          | 5041 4              |
| OBS                     | 0100                | 24        | 23 | 36      | 76 | 24                  | 92 |           |                          | 5041 4              |
| STD                     | 0150                | 24        | 22 | 36      | 94 | 25                  | 06 | 0 478     |                          | 5044 7              |
| OBS                     | 0150                | 24        | 22 | 36      | 94 | 25                  | 06 |           |                          | 5044 7              |
| OBS                     | 0175                | 23        | 50 | 36      | 88 | 25                  | 20 |           |                          | 5040 9              |
| STD                     | 0200                | 22        | 40 | 36      | 82 | 25                  | 51 | 0 616     |                          | 5032 2              |
| OBS                     | 0200                | 22        | 40 | 36      | 82 | 25                  | 51 |           |                          | 5032 2              |
| OBS                     | 0225                | 20        | 46 | 36      | 63 | 25                  | 90 |           |                          | 5016 3              |
| STD                     | 0250                | 19        | 37 | 36      | 57 | 26                  | 14 | 0 730     |                          | 5007 7              |
| OBS                     | 0250                | 19        | 37 | 36      | 57 | 26                  | 14 |           |                          | 5007 7              |
| STD                     | 0300                | 18        | 25 | 36      | 48 | 26                  | 36 | 0 823     |                          | 4999 6              |
| OBS                     | 0300                | 18        | 25 | 36      | 48 | 26                  | 36 |           |                          | 4999 6              |
| STD                     | 0400                | 16        | 67 | 36      | 24 | 26                  | 56 | 0 993     |                          | 4988 8              |
| STD                     | 0500                | 14        | 68 | 35      | 95 | 26                  | 79 | 1 144     |                          | 4972 8              |
| OBS                     | 0500                | 14        | 68 | 35      | 95 | 26                  | 79 |           |                          | 4972 8              |
| STD                     | 0600                | 12        | 28 | 35      | 61 | 27                  | 03 | 1 275     |                          | 4950 8              |
| OBS                     | 0600                | 12        | 28 | 35      | 61 | 27                  | 03 |           |                          | 4950 8              |
| OBS                     | 0650                | 11        | 26 | 35      | 45 | 27                  | 10 |           |                          | 4941 3              |
| OBS                     | 0700                | 10        | 13 | 35      | 33 | 27                  | 21 |           |                          | 4930 3              |
| OBS                     | 0750                | 09        | 32 | 35      | 25 | 27                  | 28 |           |                          | 4922 9              |
| STD                     | 0800                | 08        | 38 | 35      | 18 | 27                  | 38 | 1 481     |                          | 4913 8              |
| OBS                     | 0800                | 08        | 38 | 35      | 18 | 27                  | 38 |           |                          | 4913 8              |
| STD                     | 1000                | 05        | 09 | 35      | 02 | 27                  | 70 | 1 619     |                          | 4881 5              |
| OBS                     | 1000                | 05        | 09 | 35      | 02 | 27                  | 70 |           |                          | 4881 5              |
| STD                     | 1200                | 04        | 27 | 35      | 00 | 27                  | 78 | 1 716     |                          | 4881 3              |
| OBS                     | 1300                | 03        | 98 | 34      | 99 | 27                  | 80 |           |                          | 4882 8              |
| STD                     | 1500                | 03        | 88 | 34      | 98 | 27                  | 80 | 1 851     |                          | 4892 4              |
| OBS                     | 1800                | 03        | 72 | 34      | 98 | 27                  | 82 |           |                          | 4906 7              |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |  |  |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|--|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |  |  |
| 31947                | 0024    | 05   | 23  | 1962 | 19   | 24       | 40 N | 077 35 W  | 1850                          | 18                      |  |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 06    | 16   |                | 16           | 27 0            | 22 9  |               | 01      | 1     | 2    | 16   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |      |     |                     |   |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|------|-----|---------------------|---|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD |     | O <sub>2</sub> ml/l |   | V <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  | ↓    | ↓   | ↓                   | ↓ | ↓              |
| STD                     | 0000                | 25   | 90 | 36  | 58 | 24             | 28 | 0    | 000 |                     |   | 5048 1         |
| OBS                     | 0000                | 25   | 90 | 36  | 58 | 24             | 28 |      |     |                     |   | 5048 1         |
| STD                     | 0010†               | 25   | 72 | 36  | 67 | 24             | 40 | 0    | 036 |                     |   | 5047 6         |
| STD                     | 0020†               | 25   | 53 | 36  | 73 | 24             | 51 | 0    | 071 |                     |   | 5047 0         |
| STD                     | 0030†               | 25   | 32 | 36  | 77 | 24             | 60 | 0    | 105 |                     |   | 5046 1         |
| OBS                     | 0040                | 25   | 09 | 36  | 79 | 24             | 69 |      |     |                     |   | 5044 9         |
| STD                     | 0050                | 24   | 70 | 36  | 72 | 24             | 75 | 0    | 171 |                     |   | 5042 2         |
| STD                     | 0075                | 24   | 16 | 36  | 68 | 24             | 88 | 0    | 250 |                     |   | 5039 2         |
| OBS                     | 0075                | 24   | 16 | 36  | 68 | 24             | 88 |      |     |                     |   | 5039 2         |
| STD                     | 0100                | 24   | 26 | 36  | 86 | 24             | 99 | 0    | 326 |                     |   | 5042 0         |
| OBS                     | 0100                | 24   | 26 | 36  | 86 | 24             | 99 |      |     |                     |   | 5042 0         |
| STD                     | 0150                | 24   | 12 | 37  | 00 | 25             | 14 | 0    | 474 |                     |   | 5044 1         |
| OBS                     | 0150                | 24   | 12 | 37  | 00 | 25             | 14 |      |     |                     |   | 5044 1         |
| OBS                     | 0175                | 23   | 40 | 36  | 93 | 25             | 30 |      |     |                     |   | 5039 5         |
| STD                     | 0200                | 22   | 20 | 36  | 67 | 25             | 45 | 0    | 612 |                     |   | 5030 0         |
| OBS                     | 0200                | 22   | 20 | 36  | 67 | 25             | 45 |      |     |                     |   | 5030 0         |
| OBS                     | 0225                | 20   | 00 | 36  | 78 | 26             | 14 |      |     |                     |   | 5012 8         |
| STD                     | 0250                | 19   | 19 | 36  | 62 | 26             | 23 | 0    | 725 |                     |   | 5006 2         |
| OBS                     | 0250                | 19   | 19 | 36  | 62 | 26             | 23 |      |     |                     |   | 5006 2         |
| STD                     | 0300                | 18   | 29 | 36  | 54 | 26             | 40 | 0    | 816 |                     |   | 5000 2         |
| OBS                     | 0300                | 18   | 29 | 36  | 54 | 26             | 40 |      |     |                     |   | 5000 2         |
| STD                     | 0400                | 16   | 62 | 36  | 31 | 26             | 63 | 0    | 981 |                     |   | 4988 6         |
| STD                     | 0500                | 14   | 59 | 36  | 01 | 26             | 86 | 1    | 126 |                     |   | 4972 1         |
| OBS                     | 0500                | 14   | 59 | 36  | 01 | 26             | 86 |      |     |                     |   | 4972 1         |
| STD                     | 0600                | 12   | 21 | 35  | 64 | 27             | 06 | 1    | 251 |                     |   | 4950 2         |
| OBS                     | 0600                | 12   | 21 | 35  | 64 | 27             | 06 |      |     |                     |   | 4950 2         |
| OBS                     | 0650                | 10   | 84 | 35  | 46 | 27             | 18 |      |     |                     |   | 4936 5         |
| OBS                     | 0700                | 09   | 85 | 35  | 36 | 27             | 28 |      |     |                     |   | 4927 1         |
| OBS                     | 0750                | 09   | 11 | 35  | 30 | 27             | 35 |      |     |                     |   | 4920 6         |
| STD                     | 0800                | 08   | 05 | 35  | 22 | 27             | 46 | 1    | 445 |                     |   | 4909 9         |
| OBS                     | 0800                | 08   | 05 | 35  | 22 | 27             | 46 |      |     |                     |   | 4909 9         |
| STD                     | 1000                | 05   | 11 | 35  | 09 | 27             | 75 | 1    | 571 |                     |   | 4882 1         |
| OBS                     | 1000                | 05   | 11 | 35  | 09 | 27             | 75 |      |     |                     |   | 4882 1         |
| STD                     | 1200                | 04   | 29 | 35  | 05 | 27             | 82 | 1    | 660 |                     |   | 4881 8         |
| OBS                     | 1300                | 03   | 99 | 35  | 04 | 27             | 84 |      |     |                     |   | 4883 1         |
| STD                     | 1500                | 03   | 86 | 35  | 04 | 27             | 85 | 1    | 782 |                     |   | 4892 4         |
| OBS                     | 1800                | 03   | 67 | 35  | 04 | 27             | 87 |      |     |                     |   | 4906 3         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                        |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX<br>SAMPLE<br>DEPTH |  |
|                      |         | MO   | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                        |  |
| 31947                | 0025    | 05   | 23  | 1962 | 22   | 24 40 N  | 077 35 W  | 1850                          | 18                     |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY °           | WET ° |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 06    | 14   |                | 16           | 25 2            | 22 1  |               | 02      | 6     | 2    | 16   | 3    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |    |                |    |       |                    |                |
|-------------------------|---------------------|------|----|----|----|----------------|----|-------|--------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q <sub>1</sub> m/l | V <sub>t</sub> |
| STD                     | 0000                | 25   | 77 | 36 | 57 | 24             | 31 | 0 000 |                    | 5047 1         |
| ORS                     | 0000                | 25   | 77 | 36 | 57 | 24             | 31 |       |                    | 5047 1         |
| STD                     | 0010 †              | 25   | 61 | 36 | 65 | 24             | 42 | 0 036 |                    | 5046 7         |
| STD                     | 0020 †              | 25   | 44 | 36 | 72 | 24             | 53 | 0 070 |                    | 5046 3         |
| STD                     | 0030 †              | 25   | 26 | 36 | 77 | 24             | 62 | 0 104 |                    | 5045 6         |
| ORS                     | 0040                | 25   | 08 | 36 | 81 | 24             | 70 |       |                    | 5044 9         |
| STD                     | 0050                | 24   | 78 | 36 | 81 | 24             | 80 | 0 170 |                    | 5043 2         |
| STD                     | 0075                | 24   | 39 | 36 | 81 | 24             | 91 | 0 248 |                    | 5041 5         |
| ORS                     | 0075                | 24   | 39 | 36 | 81 | 24             | 91 |       |                    | 5041 5         |
| STD                     | 0100                | 24   | 50 | 36 | 97 | 25             | 00 | 0 324 |                    | 5044 3         |
| ORS                     | 0100                | 24   | 50 | 36 | 97 | 25             | 00 |       |                    | 5044 3         |
| STD                     | 0150                | 24   | 09 | 36 | 99 | 25             | 14 | 0 471 |                    | 5043 8         |
| ORS                     | 0150                | 24   | 09 | 36 | 99 | 25             | 14 |       |                    | 5043 8         |
| ORS                     | 0175                | 23   | 39 | 36 | 95 | 25             | 32 |       |                    | 5039 5         |
| STD                     | 0200                | 21   | 91 | 36 | 79 | 25             | 62 | 0 605 |                    | 5028 0         |
| ORS                     | 0200                | 21   | 91 |    |    |                |    |       |                    |                |
| ORS                     | 0225                | 20   | 20 | 36 | 68 | 26             | 01 |       |                    | 5014 2         |
| STD                     | 0250                | 19   | 20 | 36 | 63 | 26             | 23 | 0 714 |                    | 5006 3         |
| ORS                     | 0250                | 19   | 20 | 36 | 63 | 26             | 23 |       |                    | 5006 3         |
| STD                     | 0300                | 18   | 27 | 36 | 54 | 26             | 40 | 0 804 |                    | 5000 1         |
| ORS                     | 0300                | 18   | 27 | 36 | 54 | 26             | 40 |       |                    | 5000 1         |
| STD                     | 0400                | 16   | 77 | 36 | 32 | 26             | 60 | 0 970 |                    | 4990 1         |
| STD                     | 0500                | 14   | 74 | 36 | 02 | 26             | 83 | 1 118 |                    | 4973 7         |
| ORS                     | 0500                | 14   | 74 | 36 | 02 | 26             | 83 |       |                    | 4973 7         |
| STD                     | 0600                | 12   | 18 | 35 | 64 | 27             | 07 | 1 244 |                    | 4949 8         |
| ORS                     | 0600                | 12   | 18 | 35 | 64 | 27             | 07 |       |                    | 4949 8         |
| ORS                     | 0650                | 10   | 91 | 35 | 47 | 27             | 18 |       |                    | 4937 3         |
| ORS                     | 0700                | 10   | 03 | 35 | 38 | 27             | 26 |       |                    | 4929 3         |
| ORS                     | 0750                | 09   | 05 | 35 | 30 | 27             | 36 |       |                    | 4919 9         |
| STD                     | 0800                | 08   | 14 | 35 | 22 | 27             | 45 | 1 439 |                    | 4911 0         |
| ORS                     | 0800                | 08   | 14 | 35 | 22 | 27             | 45 |       |                    | 4911 0         |
| STD                     | 1000                | 05   | 05 | 35 | 09 | 27             | 76 | 1 565 |                    | 4881 3         |
| ORS                     | 1000                | 05   | 05 | 35 | 09 | 27             | 76 |       |                    | 4881 3         |
| STD                     | 1200                | 04   | 28 | 35 | 07 | 27             | 83 | 1 652 |                    | 4881 7         |
| ORS                     | 1300                | 04   | 00 | 35 | 06 | 27             | 86 |       |                    | 4883 4         |
| STD                     | 1500                | 03   | 74 | 35 | 04 | 27             | 87 | 1 769 |                    | 4890 7         |
| ORS                     | 1800                | 03   | 64 | 35 | 02 | 27             | 86 |       |                    | 4905 8         |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0026    | 05   | 24  | 1962 | 01   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|-----|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |     | COL.  | TRANS. |
| 04    | 16   |                | 17           | 25 0            | 22 0  |               | 02      |       |      | 15   | 3    |       |      | 7   |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |    |                |    |       |                    |                |
|-------------------------|---------------------|------|----|----|----|----------------|----|-------|--------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q <sub>2</sub> m/l | V <sub>t</sub> |
| STD                     | 0000                | 25   | 65 | 36 | 57 | 24             | 35 | 0 000 |                    | 5046 2         |
| OBS                     | 0000                | 25   | 65 | 36 | 57 | 24             | 35 |       |                    | 5046 2         |
| STD                     | 0010†               | 25   | 48 | 36 | 63 | 24             | 45 | 0 035 |                    | 5045 7         |
| STD                     | 0020†               | 25   | 30 | 36 | 67 | 24             | 53 | 0 070 |                    | 5045 0         |
| STD                     | 0030†               | 25   | 14 | 36 | 72 | 24             | 62 | 0 104 |                    | 5044 5         |
| OBS                     | 0040                | 24   | 97 | 36 | 75 | 24             | 69 |       |                    | 5043 9         |
| STD                     | 0050                | 24   | 69 | 36 | 77 | 24             | 79 | 0 169 |                    | 5042 3         |
| STD                     | 0075                | 24   | 41 | 36 | 82 | 24             | 92 | 0 247 |                    | 5041 7         |
| OBS                     | 0075                | 24   | 41 | 36 | 82 | 24             | 92 |       |                    | 5041 7         |
| STD                     | 0100                | 24   | 70 | 37 | 03 | 24             | 99 | 0 324 |                    | 5046 1         |
| OBS                     | 0100                | 24   | 70 | 37 | 03 | 24             | 99 |       |                    | 5046 1         |
| STD                     | 0150                | 24   | 13 | 36 | 99 | 25             | 13 | 0 472 |                    | 5044 2         |
| OBS                     | 0150                | 24   | 13 | 36 | 99 | 25             | 13 |       |                    | 5044 2         |
| OBS                     | 0175                | 23   | 55 | 36 | 98 | 25             | 29 |       |                    | 5040 9         |
| STD                     | 0200                | 22   | 41 | 36 | 85 | 25             | 53 | 0 608 |                    | 5032 4         |
| OBS                     | 0200                | 22   | 41 | 36 | 85 | 25             | 53 |       |                    | 5032 4         |
| OBS                     | 0225                | 20   | 66 | 36 | 71 | 25             | 91 |       |                    | 5018 4         |
| STD                     | 0250                | 19   | 27 | 36 | 63 | 26             | 21 | 0 719 |                    | 5007 0         |
| OBS                     | 0250                | 19   | 27 | 36 | 63 | 26             | 21 |       |                    | 5007 0         |
| STD                     | 0300                | 18   | 35 | 36 | 54 | 26             | 38 | 0 811 |                    | 5000 8         |
| OBS                     | 0300                | 18   | 35 | 36 | 54 | 26             | 38 |       |                    | 5000 8         |
| STD                     | 0400                | 16   | 78 | 36 | 32 | 26             | 60 | 0 978 |                    | 4990 2         |
| STD                     | 0500                | 14   | 77 | 36 | 03 | 26             | 83 | 1 126 |                    | 4974 1         |
| OBS                     | 0500                | 14   | 77 | 36 | 03 | 26             | 83 |       |                    | 4974 1         |
| STD                     | 0600                | 12   | 31 | 35 | 66 | 27             | 06 | 1 253 |                    | 4951 4         |
| OBS                     | 0600                | 12   | 31 | 35 | 66 | 27             | 06 |       |                    | 4951 4         |
| OBS                     | 0650                | 11   | 02 | 35 | 47 | 27             | 17 |       |                    | 4938 7         |
| OBS                     | 0700                | 10   | 18 | 35 | 40 | 27             | 25 |       |                    | 4931 2         |
| OBS                     | 0750                | 09   | 19 | 35 | 31 | 27             | 35 |       |                    | 4921 6         |
| STD                     | 0800                | 08   | 03 | 35 | 21 | 27             | 45 | 1 448 |                    | 4909 6         |
| OBS                     | 0800                | 08   | 03 | 35 | 21 | 27             | 45 |       |                    | 4909 6         |
| STD                     | 1000                | 05   | 02 | 35 | 09 | 27             | 77 | 1 572 |                    | 4880 9         |
| OBS                     | 1000                | 05   | 02 | 35 | 09 | 27             | 77 |       |                    | 4880 9         |
| STD                     | 1200                | 04   | 28 | 35 | 07 | 27             | 83 | 1 659 |                    | 4881 7         |
| OBS                     | 1300                | 04   | 01 | 35 | 06 | 27             | 85 |       |                    | 4883 5         |
| STD                     | 1500                | 03   | 67 | 35 | 04 | 27             | 87 | 1 775 |                    | 4889 7         |
| OBS                     | 1800                | 03   | 64 | 35 | 02 | 27             | 86 |       |                    | 4905 8         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0027    | 05   | 24  | 1962 | 04   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 14   |                | 17           | 25.3            | 21.2  |               | 02      | 6     | 2    | 15   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |                |    |      |    |                     |     |                |
|-------------------------|---------------------|------|----|----------------|----|------|----|---------------------|-----|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | σ <sub>t</sub> |    | Σ ΔD |    | Q <sub>2m</sub> I/I |     | V <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓              | ↓  | ↓    | ↓  | ↓                   | ↓   |                |
| STD                     | 0000                | 25   | 55 | 36             | 57 | 24   | 38 | 0                   | 000 | 5045 5         |
| OBS                     | 0000                | 25   | 55 | 36             | 57 | 24   | 38 |                     |     | 5045 5         |
| STD                     | 0010†               | 25   | 34 | 36             | 57 | 24   | 44 | 0                   | 035 | 5044 4         |
| STD                     | 0020†               | 25   | 15 | 36             | 56 | 24   | 49 | 0                   | 070 | 5043 5         |
| STD                     | 0030†               | 24   | 99 | 36             | 56 | 24   | 54 | 0                   | 104 | 5042 8         |
| OBS                     | 0040                | 24   | 85 | 36             | 56 | 24   | 59 |                     |     | 5042 2         |
| STD                     | 0050                | 24   | 75 | 36             | 65 | 24   | 68 | 0                   | 171 | 5042 3         |
| STD                     | 0075                | 24   | 55 | 36             | 82 | 24   | 87 | 0                   | 252 | 5042 8         |
| OBS                     | 0075                | 24   | 55 | 36             | 82 | 24   | 87 |                     |     | 5042 8         |
| STD                     | 0100                | 24   | 44 | 36             | 90 | 24   | 97 | 0                   | 328 | 5043 6         |
| OBS                     | 0100                | 24   | 44 | 36             | 90 | 24   | 97 |                     |     | 5043 6         |
| STD                     | 0150                | 24   | 14 | 37             | 00 | 25   | 13 | 0                   | 477 | 5044 3         |
| OBS                     | 0150                | 24   | 14 | 37             | 00 | 25   | 13 |                     |     | 5044 3         |
| OBS                     | 0175                | 23   | 54 | 36             | 95 | 25   | 27 |                     |     | 5040 7         |
| STD                     | 0200                | 22   | 85 | 36             | 89 | 25   | 43 | 0                   | 615 | 5036 2         |
| OBS                     | 0200                | 22   | 85 | 36             | 89 | 25   | 43 |                     |     | 5036 2         |
| OBS                     | 0225                | 20   | 84 | 36             | 72 | 25   | 86 |                     |     | 5020 0         |
| STD                     | 0250                | 19   | 64 | 36             | 64 | 26   | 13 | 0                   | 731 | 5010 4         |
| OBS                     | 0250                | 19   | 64 | 36             | 64 | 26   | 13 |                     |     | 5010 4         |
| STD                     | 0300                | 18   | 35 | 36             | 54 | 26   | 38 | 0                   | 825 | 5000 8         |
| OBS                     | 0300                | 18   | 35 | 36             | 54 | 26   | 38 |                     |     | 5000 8         |
| STD                     | 0400                | 17   | 08 | 36             | 36 | 26   | 56 | 0                   | 994 | 4993 3         |
| STD                     | 0500                | 15   | 01 | 36             | 06 | 26   | 80 | 1                   | 145 | 4976 7         |
| OBS                     | 0500                | 15   | 01 | 36             | 06 | 26   | 80 |                     |     | 4976 7         |
| STD                     | 0600                | 12   | 15 | 35             | 63 | 27   | 07 | 1                   | 273 | 4949 5         |
| OBS                     | 0600                | 12   | 15 | 35             | 63 | 27   | 07 |                     |     | 4949 5         |
| OBS                     | 0650                | 11   | 22 | 35             | 50 | 27   | 14 |                     |     | 4941 0         |
| OBS                     | 0700                | 10   | 25 | 35             | 40 | 27   | 24 |                     |     | 4932 0         |
| OBS                     | 0750                | 09   | 21 | 35             | 30 | 27   | 34 |                     |     | 4921 8         |
| STD                     | 0800                | 08   | 33 | 35             | 23 | 27   | 42 | 1                   | 471 | 4913 4         |
| OBS                     | 0800                | 08   | 33 | 35             | 23 | 27   | 42 |                     |     | 4913 4         |
| STD                     | 1000                | 05   | 04 | 35             | 09 | 27   | 76 | 1                   | 595 | 4881 2         |
| OBS                     | 1000                | 05   | 04 | 35             | 09 | 27   | 76 |                     |     | 4881 2         |
| STD                     | 1200                | 04   | 31 | 35             | 05 | 27   | 81 | 1                   | 607 | 4882 1         |
| OBS                     | 1300                | 04   | 04 | 35             | 04 | 27   | 84 |                     |     | 4883 8         |
| STD                     | 1500                | 03   | 69 | 35             | 02 | 27   | 86 | 1                   | 809 | 4889 9         |
| OBS                     | 1800                | 03   | 64 | 35             | 02 | 27   | 86 |                     |     | 4905 8         |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | NO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0028    | 05   | 24  | 1962 | 07   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 14   |                | 17           | 25              | 0     | 21            | 9       | 05    | 3    | 5    | 15   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |    |                |    |       |                     |                |
|-------------------------|---------------------|------|----|----|----|----------------|----|-------|---------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ |    | σ <sub>t</sub> |    | Σ ΔD  | O <sub>2</sub> ml/l | V <sub>t</sub> |
|                         |                     | ↓    |    | ↓  |    | ↓              |    | ↓     | ↓                   | ↓              |
| STD                     | 0000                | 25   | 38 | 36 | 56 | 24             | 42 | 0 000 |                     | 5044 1         |
| OBS                     | 0000                | 25   | 38 | 36 | 56 | 24             | 42 |       |                     | 5044 1         |
| STD                     | 0010†               | 25   | 26 | 36 | 56 | 24             | 46 | 0 035 |                     | 5043 8         |
| STD                     | 0020†               | 25   | 14 | 36 | 55 | 24             | 49 | 0 070 |                     | 5043 4         |
| STD                     | 0030†               | 25   | 02 | 36 | 55 | 24             | 53 | 0 104 |                     | 5043 0         |
| OBS                     | 0040                | 24   | 89 | 36 | 55 | 24             | 57 |       |                     | 5042 5         |
| STD                     | 0050                | 24   | 71 | 36 | 61 | 24             | 67 | 0 172 |                     | 5041 9         |
| STD                     | 0075                | 24   | 42 | 36 | 75 | 24             | 86 | 0 252 |                     | 5041 5         |
| OBS                     | 0075                | 24   | 42 | 36 | 75 | 24             | 86 |       |                     | 5041 5         |
| STD                     | 0100                | 24   | 38 | 36 | 86 | 24             | 96 | 0 329 |                     | 5042 9         |
| OBS                     | 0100                | 24   | 38 | 36 | 86 | 24             | 96 |       |                     | 5042 9         |
| STD                     | 0150                | 24   | 16 | 37 | 00 | 25             | 13 | 0 478 |                     | 5044 4         |
| OBS                     | 0150                | 24   | 16 | 37 | 00 | 25             | 13 |       |                     | 5044 4         |
| OBS                     | 0175                | 23   | 49 | 36 | 95 | 25             | 29 |       |                     | 5040 3         |
| STD                     | 0200                | 22   | 69 | 36 | 76 | 25             | 38 | 0 618 |                     | 5034 4         |
| OBS                     | 0200                | 22   | 69 | 36 | 76 | 25             | 38 |       |                     | 5034 4         |
| OBS                     | 0225                | 20   | 55 | 36 | 71 | 25             | 94 |       |                     | 5017 4         |
| STD                     | 0250                | 19   | 41 | 36 | 63 | 26             | 18 | 0 734 |                     | 5008 2         |
| OBS                     | 0250                | 19   | 41 | 36 | 63 | 26             | 18 |       |                     | 5008 2         |
| STD                     | 0300                | 18   | 39 | 36 | 55 | 26             | 38 | 0 826 |                     | 5001 2         |
| OBS                     | 0300                | 18   | 39 | 36 | 55 | 26             | 38 |       |                     | 5001 2         |
| STD                     | 0400                | 16   | 93 | 36 | 35 | 26             | 58 | 0 994 |                     | 4991 8         |
| STD                     | 0500                | 14   | 91 | 36 | 05 | 26             | 82 | 1 143 |                     | 4975 6         |
| OBS                     | 0500                | 14   | 91 | 36 | 05 | 26             | 82 |       |                     | 4975 6         |
| STD                     | 0600                | 12   | 32 | 35 | 65 | 27             | 05 | 1 212 |                     | 4951 5         |
| OBS                     | 0600                | 12   | 32 | 35 | 65 | 27             | 05 |       |                     | 4951 5         |
| OBS                     | 0650                | 11   | 28 | 35 | 52 | 27             | 15 |       |                     | 4941 8         |
| OBS                     | 0700                | 10   | 15 | 35 | 39 | 27             | 25 |       |                     | 4930 8         |
| OBS                     | 0750                | 09   | 14 | 35 | 29 | 27             | 34 |       |                     | 4920 9         |
| STD                     | 0800                | 08   | 32 | 35 | 23 | 27             | 43 | 1 471 |                     | 4913 3         |
| OBS                     | 0800                | 08   | 32 | 35 | 23 | 27             | 43 |       |                     | 4913 3         |
| STD                     | 1000                | 05   | 27 | 35 | 09 | 27             | 74 | 1 602 |                     | 4884 3         |
| OBS                     | 1000                | 05   | 27 | 35 | 09 | 27             | 74 |       |                     | 4884 3         |
| STD                     | 1200                | 04   | 38 | 35 | 05 | 27             | 81 | 1 694 |                     | 4883 0         |
| OBS                     | 1300                | 04   | 06 | 35 | 04 | 27             | 83 |       |                     | 4884 1         |
| STD                     | 1500                | 03   | 91 | 35 | 04 | 27             | 85 | 1 819 |                     | 4893 0         |
| OBS                     | 1800                | 03   | 68 | 35 | 04 | 27             | 87 |       |                     | 4906 5         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0029    | 05   | 24  | 1962 | 10   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY. ↓          | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 14   |                | 16           | 24              | 7     | 21            | 7       | 02    | 8    | 1    | 13   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |                |                |      |        |                |        |
|-------------------------|---------------------|------|----|----------------|----------------|------|--------|----------------|--------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | σ <sub>t</sub> | σ <sub>θ</sub> | Σ Δσ | Q, m/s | V <sub>t</sub> |        |
| STD                     | 0000                | 25   | 32 | 36             | 56             | 24   | 44     | 0 000          | 5043 7 |
| OBS                     | 0000                | 25   | 32 | 36             | 56             | 24   | 44     |                | 5043 7 |
| STD                     | 0010†               | 25   | 22 | 36             | 56             | 24   | 47     | 0 035          | 5043 5 |
| STD                     | 0020†               | 25   | 12 | 36             | 56             | 24   | 50     | 0 069          | 5043 2 |
| STD                     | 0030†               | 25   | 02 | 36             | 56             | 24   | 53     | 0 104          | 5043 0 |
| OBS                     | 0040                | 24   | 91 | 36             | 56             | 24   | 57     |                | 5042 7 |
| STD                     | 0050                | 24   | 77 | 36             | 63             | 24   | 66     | 0 171          | 5042 4 |
| STD                     | 0075                | 24   | 51 | 36             | 77             | 24   | 85     | 0 252          | 5042 3 |
| OBS                     | 0075                | 24   | 51 | 36             | 77             | 24   | 85     |                | 5042 3 |
| STD                     | 0100                | 24   | 39 | 36             | 83             | 24   | 93     | 0 329          | 5042 9 |
| OBS                     | 0100                | 24   | 39 | 36             | 83             | 24   | 93     |                | 5042 9 |
| STD                     | 0150                | 24   | 22 | 37             | 00             | 25   | 11     | 0 479          | 5044 9 |
| OBS                     | 0150                | 24   | 22 | 37             | 00             | 25   | 11     |                | 5044 9 |
| OBS                     | 0175                | 23   | 57 | 36             | 94             | 25   | 26     |                | 5040 9 |
| STD                     | 0200                | 22   | 41 | 36             | 84             | 25   | 52     | 0 616          | 5032 4 |
| OBS                     | 0200                | 22   | 41 | 36             | 84             | 25   | 52     |                | 5032 4 |
| OBS                     | 0225                | 20   | 76 | 36             | 73             | 25   | 89     |                | 5019 3 |
| STD                     | 0250                | 19   | 70 | 36             | 65             | 26   | 12     | 0 730          | 5010 9 |
| OBS                     | 0250                | 19   | 70 | 36             | 65             | 26   | 12     |                | 5010 9 |
| STD                     | 0300                | 18   | 46 | 36             | 58             | 26   | 38     | 0 824          | 5002 0 |
| OBS                     | 0300                | 18   | 46 | 36             | 58             | 26   | 38     |                | 5002 0 |
| STD                     | 0400                | 16   | 97 | 36             | 35             | 26   | 57     | 0 392          | 4992 2 |
| STD                     | 0500                | 14   | 88 | 36             | 04             | 26   | 82     | 1 142          | 4975 3 |
| OBS                     | 0500                | 14   | 88 | 36             | 04             | 26   | 82     |                | 4975 3 |
| STD                     | 0600                | 12   | 20 | 35             | 65             | 27   | 07     | 1 269          | 4950 1 |
| OBS                     | 0600                | 12   | 20 | 35             | 65             | 27   | 07     |                | 4950 1 |
| OBS                     | 0650                | 11   | 23 | 35             | 51             | 27   | 15     |                | 4941 2 |
| OBS                     | 0700                | 10   | 07 | 35             | 38             | 27   | 26     |                | 4929 8 |
| OBS                     | 0750                | 09   | 23 | 35             | 29             | 27   | 33     |                | 4922 0 |
| STD                     | 0800                | 08   | 22 | 35             | 22             | 27   | 43     | 1 465          | 4912 0 |
| OBS                     | 0800                | 08   | 22 | 35             | 22             | 27   | 43     |                | 4912 0 |
| STD                     | 1000                | 05   | 11 | 35             | 08             | 27   | 75     | 1 593          | 4882 1 |
| OBS                     | 1000                | 05   | 11 | 35             | 08             | 27   | 75     |                | 4882 1 |
| STD                     | 1200                | 04   | 33 | 35             | 05             | 27   | 81     | 1 684          | 4882 3 |
| OBS                     | 1300                | 04   | 04 | 35             | 04             | 27   | 84     |                | 4883 8 |
| STD                     | 1500                | 03   | 68 | 35             | 03             | 27   | 86     | 1 604          | 4889 8 |
| OBS                     | 1800                | 03   | 65 | 35             | 02             | 27   | 86     |                | 4906 0 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |    |  |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|----|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |    |  |
| 31947                | 0030    | 05   | 24  | 1962 | 13   | 24       | 40 N | 077       | 35 W                          | 1850                    | 18 |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |       |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|-------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS |
| 05    | 09   |                | 18           | 26              | 1 22  | 0             | 02      |       |      | 11   | 2    |       |      | 7    |       |       |

| SUBSURFACE OBSERVATIONS |                     |      |    |                |      |                     |                |   |     |  |  |        |
|-------------------------|---------------------|------|----|----------------|------|---------------------|----------------|---|-----|--|--|--------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | σ <sub>t</sub> | Σ ΔD | Q <sub>2m</sub> I/I | V <sub>t</sub> |   |     |  |  |        |
|                         |                     | ↓    | ↓  | ↓              | ↓    | ↓                   | ↓              |   |     |  |  |        |
| STD                     | 0000                | 25   | 36 | 36             | 57   | 24                  | 44             | 0 | 000 |  |  | 5044 0 |
| OBS                     | 0000                | 25   | 36 | 36             | 57   | 24                  | 44             |   |     |  |  | 5044 0 |
| STD                     | 0010†               | 25   | 08 | 36             | 58   | 24                  | 53             | 0 | 035 |  |  | 5042 5 |
| STD                     | 0020†               | 24   | 85 | 36             | 58   | 24                  | 60             | 0 | 068 |  |  | 5041 2 |
| STD                     | 0030†               | 24   | 67 | 36             | 59   | 24                  | 66             | 0 | 102 |  |  | 5040 4 |
| OBS                     | 0040                | 24   | 54 | 36             | 59   | 24                  | 70             |   |     |  |  | 5039 9 |
| STD                     | 0050                | 24   | 53 | 36             | 64   | 24                  | 74             | 0 | 167 |  |  | 5040 6 |
| STD                     | 0075                | 24   | 48 | 36             | 75   | 24                  | 84             | 0 | 247 |  |  | 5042 0 |
| OBS                     | 0075                | 24   | 48 | 36             | 75   | 24                  | 84             |   |     |  |  | 5042 0 |
| STD                     | 0100                | 24   | 39 | 36             | 83   | 24                  | 93             | 0 | 325 |  |  | 5042 9 |
| OBS                     | 0100                | 24   | 39 | 36             | 83   | 24                  | 93             |   |     |  |  | 5042 9 |
| STD                     | 0150                | 24   | 11 | 36             | 96   | 25                  | 11             | 0 | 474 |  |  | 5043 9 |
| OBS                     | 0150                | 24   | 11 | 36             | 96   | 25                  | 11             |   |     |  |  | 5043 9 |
| OBS                     | 0175                | 23   | 62 | 36             | 92   | 25                  | 23             |   |     |  |  | 5041 2 |
| STD                     | 0200                | 22   | 91 | 36             | 90   | 25                  | 42             | 0 | 614 |  |  | 5036 7 |
| OBS                     | 0200                | 22   | 91 | 36             | 90   | 25                  | 42             |   |     |  |  | 5036 7 |
| OBS                     | 0225                | 21   | 43 | 36             | 78   | 25                  | 75             |   |     |  |  | 5025 3 |
| STD                     | 0250                | 19   | 92 | 36             | 66   | 26                  | 07             | 0 | 731 |  |  | 5013 0 |
| OBS                     | 0250                | 19   | 92 | 36             | 66   | 26                  | 07             |   |     |  |  | 5013 0 |
| STD                     | 0300                | 18   | 47 | 36             | 56   | 26                  | 37             | 0 | 826 |  |  | 5002 0 |
| OBS                     | 0300                | 18   | 47 | 36             | 56   | 26                  | 37             |   |     |  |  | 5002 0 |
| STD                     | 0400                | 16   | 95 | 36             | 35   | 26                  | 58             | 0 | 995 |  |  | 4992 0 |
| STD                     | 0500                | 14   | 94 | 36             | 06   | 26                  | 82             | 1 | 145 |  |  | 4976 0 |
| OBS                     | 0500                | 14   | 94 | 36             | 06   | 26                  | 82             |   |     |  |  | 4976 0 |
| STD                     | 0600                | 12   | 45 | 35             | 68   | 27                  | 05             | 1 | 275 |  |  | 4953 0 |
| OBS                     | 0600                | 12   | 45 | 35             | 68   | 27                  | 05             |   |     |  |  | 4953 0 |
| OBS                     | 0650                | 11   | 19 | 35             | 51   | 27                  | 16             |   |     |  |  | 4940 7 |
| OBS                     | 0700                | 09   | 87 | 35             | 36   | 27                  | 27             |   |     |  |  | 4927 3 |
| OBS                     | 0750                | 09   | 18 | 35             | 30   | 27                  | 34             |   |     |  |  | 4921 5 |
| STD                     | 0800                | 08   | 40 | 35             | 24   | 27                  | 42             | 1 | 473 |  |  | 4914 3 |
| OBS                     | 0800                | 08   | 40 | 35             | 24   | 27                  | 42             |   |     |  |  | 4914 3 |
| STD                     | 1000                | 05   | 15 | 35             | 08   | 27                  | 74             | 1 | 604 |  |  | 4882 6 |
| OBS                     | 1000                | 05   | 15 | 35             | 08   | 27                  | 74             |   |     |  |  | 4882 6 |
| STD                     | 1200                | 04   | 35 | 35             | 05   | 27                  | 82             | 1 | 694 |  |  | 4882 7 |
| OBS                     | 1300                | 04   | 06 | 35             | 05   | 27                  | 84             |   |     |  |  | 4884 1 |
| STD                     | 1500                | 03   | 70 | 35             | 04   | 27                  | 87             | 1 | 813 |  |  | 4890 1 |
| OBS                     | 1800                | 03   | 69 | 35             | 02   | 27                  | 86             |   |     |  |  | 4906 5 |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0031    | 05   | 24  | 1962 | 16   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 09   |                | 19           | 25              | 6     | 21            | 1       |       | 02   | 8    | 2    | 11    | 1    |      | 7     |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |         |     |                     |    |           |                          |                     |
|-------------------------|---------------------|-----------|----|---------|-----|---------------------|----|-----------|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S‰<br>↓ |     | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 25        | 60 | 36      | 51  | 24                  | 32 | 0 000     |                          | 5045 6              |
| OBS                     | 0000                | 25        | 60 | 36      | 51  | 24                  | 32 |           |                          | 5045 6              |
| STD                     | 0010†               | 25        | 29 | 36      | 54  | 24                  | 44 | 0 036     |                          | 5043 9              |
| STD                     | 0020†               | 25        | 04 | 36      | 57  | 24                  | 54 | 0 070     |                          | 5042 7              |
| STD                     | 0030†               | 24        | 83 | 36      | 60  | 24                  | 62 | 0 104     |                          | 5041 7              |
| OBS                     | 0040                | 24        | 68 |         |     |                     |    |           |                          |                     |
| STD                     | 0050                | 24        | 65 | 36      | 66† | 24                  | 72 | 0 170     |                          | 5041 6              |
| STD                     | 0075                | 24        | 55 | 36      | 72  | 24                  | 80 | 0 250     |                          | 5042 4              |
| OBS                     | 0075                | 24        | 55 | 36      | 72  | 24                  | 80 |           |                          | 5042 4              |
| STD                     | 0100                | 24        | 39 | 36      | 77  | 24                  | 88 | 0 329     |                          | 5042 7              |
| OBS                     | 0100                | 24        | 39 | 36      | 77  | 24                  | 88 |           |                          | 5042 7              |
| STD                     | 0150                | 23        | 84 | 36      | 84  | 25                  | 10 | 0 481     |                          | 5041 3              |
| OBS                     | 0150                | 23        | 84 |         |     |                     |    |           |                          |                     |
| OBS                     | 0175                | 23        | 60 | 36      | 88  | 25                  | 20 |           |                          | 5040 9              |
| STD                     | 0200                | 22        | 79 | 36      | 81  | 25                  | 39 | 0 621     |                          | 5035 4              |
| OBS                     | 0200                | 22        | 79 | 36      | 81  | 25                  | 39 |           |                          | 5035 4              |
| OBS                     | 0225                | 21        | 32 | 36      | 57  | 25                  | 62 |           |                          | 5023 5              |
| STD                     | 0250                | 19        | 79 | 36      | 60  | 26                  | 06 | 0 739     |                          | 5011 6              |
| OBS                     | 0250                | 19        | 79 | 36      | 60  | 26                  | 06 |           |                          | 5011 6              |
| STD                     | 0300                | 18        | 43 | 36      | 51  | 26                  | 34 | 0 836     |                          | 5001 4              |
| OBS                     | 0300                | 18        | 43 | 36      | 51  | 26                  | 34 |           |                          | 5001 4              |
| STD                     | 0400                | 17        | 02 | 36      | 30  | 26                  | 52 | 1 008     |                          | 4992 5              |
| STD                     | 0500                | 14        | 94 | 35      | 99  | 26                  | 77 | 1 163     |                          | 4975 7              |
| OBS                     | 0500                | 14        | 94 | 35      | 99  | 26                  | 77 |           |                          | 4975 7              |
| STD                     | 0600                | 12        | 18 | 35      | 58  | 27                  | 02 | 1 295     |                          | 4949 6              |
| OBS                     | 0600                | 12        | 18 | 35      | 58  | 27                  | 02 |           |                          | 4949 6              |
| OBS                     | 0650                | 10        | 88 | 35      | 42  | 27                  | 14 |           |                          | 4936 8              |
| OBS                     | 0700                | 09        | 81 | 35      | 29  | 27                  | 23 |           |                          | 4926 3              |
| OBS                     | 0750                | 09        | 15 | 35      | 25  | 27                  | 31 |           |                          | 4920 9              |
| STD                     | 0800                | 08        | 42 | 35      | 18  | 27                  | 37 | 1 501     |                          | 4914 3              |
| OBS                     | 0800                | 08        | 42 | 35      | 18  | 27                  | 37 |           |                          | 4914 3              |
| STD                     | 1000                | 05        | 25 | 35      | 08  | 27                  | 73 | 1 638     |                          | 4883 9              |
| OBS                     | 1000                | 05        | 25 | 35      | 08  | 27                  | 73 |           |                          | 4883 9              |
| STD                     | 1200                | 04        | 39 | 35      | 02  | 27                  | 78 | 1 733     |                          | 4883 0              |
| OBS                     | 1300                | 04        | 08 | 35      | 00  | 27                  | 80 |           |                          | 4884 2              |
| STD                     | 1500                | 03        | 69 | 34      | 98  | 27                  | 82 | 1 864     |                          | 4889 7              |
| OBS                     | 1800                | 03        | 67 | 34      | 98  | 27                  | 83 |           |                          | 4906 1              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |    |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |    |
| 31947                | 0032    | 05   | 24  | 1962 | 19   | 24       | 40 N | 077       | 35 W                          | 1850                    | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|-----|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |     | COL.  | TRANS. |
| 03    | 12   |                | 18           | 28.3            | 22.7  |               | 01      | 8     | 1    | 11   | 1    |       |      | 7   |       |        |

| SUBSURFACE OBSERVATIONS |      |    |      |    |                |    |       |                     |                |        |  |
|-------------------------|------|----|------|----|----------------|----|-------|---------------------|----------------|--------|--|
| SAMPLE<br>DEPTH (M)     | T °C |    | S‰ O |    | σ <sub>t</sub> |    | Σ ΔD  | O <sub>2</sub> ml/l | V <sub>t</sub> |        |  |
|                         | ↓    |    | ↓    |    | ↓              |    | ↓     | ↓                   | ↓              | ↓      |  |
| 0000                    | 26   | 38 | 36   | 52 | 24             | 08 | 0 000 |                     |                | 5051 5 |  |
| 0000                    | 26   | 38 | 36   | 52 | 24             | 08 |       |                     |                | 5051 5 |  |
| 0010 †                  | 25   | 92 | 36   | 42 | 24             | 15 | 0 038 |                     |                | 5048 2 |  |
| 0020 †                  | 25   | 53 | 36   | 44 | 24             | 29 | 0 075 |                     |                | 5045 9 |  |
| 0030 †                  | 25   | 20 | 36   | 40 | 24             | 36 | 0 112 |                     |                | 5043 8 |  |
| 0040                    | 24   | 95 | 36   | 36 | 24             | 40 |       |                     |                | 5042 3 |  |
| 0050                    | 24   | 84 | 36   | 50 | 24             | 54 | 0 182 |                     |                | 5042 5 |  |
| 0075                    | 24   | 61 | 36   | 72 | 24             | 78 | 0 264 |                     |                | 5042 9 |  |
| 0075                    | 24   | 61 | 36   | 72 | 24             | 78 |       |                     |                | 5042 9 |  |
| 0100                    | 24   | 43 | 36   | 73 | 24             | 84 | 0 344 |                     |                | 5042 8 |  |
| 0100                    | 24   | 43 | 36   | 73 | 24             | 84 |       |                     |                | 5042 8 |  |
| 0150                    | 23   | 34 | 36   | 82 | 25             | 09 | 0 497 |                     |                | 5041 2 |  |
| 0150                    | 23   | 84 | 36   | 82 | 25             | 09 |       |                     |                | 5041 2 |  |
| 0175                    | 23   | 52 | 36   | 88 | 25             | 23 |       |                     |                | 5040 3 |  |
| 0200                    | 22   | 42 | 36   | 78 | 25             | 47 | 0 535 |                     |                | 5032 3 |  |
| 0200                    | 22   | 42 | 36   | 78 | 25             | 47 |       |                     |                | 5032 3 |  |
| 0225                    | 20   | 59 | 36   | 54 | 25             | 80 |       |                     |                | 5017 1 |  |
| 0250                    | 19   | 41 | 36   | 56 | 26             | 12 | 0 120 |                     |                | 5008 0 |  |
| 0250                    | 19   | 41 | 36   | 56 | 26             | 12 |       |                     |                | 5008 0 |  |
| 0300                    | 18   | 34 | 36   | 48 | 26             | 34 | 0 845 |                     |                | 5000 5 |  |
| 0300                    | 18   | 34 | 36   | 48 | 26             | 34 |       |                     |                | 5000 5 |  |
| 0400                    | 16   | 70 | 36   | 25 | 26             | 56 | 1 015 |                     |                | 4989 2 |  |
| 0500                    | 14   | 51 | 35   | 93 | 26             | 81 | 1 166 |                     |                | 4971 0 |  |
| 0500                    | 14   | 51 | 35   | 93 | 26             | 81 |       |                     |                | 4971 0 |  |
| 0600                    | 11   | 76 | 35   | 53 | 27             | 06 | 1 293 |                     |                | 4944 6 |  |
| 0600                    | 11   | 76 | 35   | 53 | 27             | 06 |       |                     |                | 4944 6 |  |
| 0650                    | 10   | 62 | 35   | 39 | 27             | 17 |       |                     |                | 4933 6 |  |
| 0700                    | 09   | 61 | 35   | 30 | 27             | 27 |       |                     |                | 4924 0 |  |
| 0750                    | 08   | 83 | 35   | 22 | 27             | 34 |       |                     |                | 4916 8 |  |
| 0800                    | 08   | 19 | 35   | 18 | 27             | 41 | 1 492 |                     |                | 4911 5 |  |
| 0800                    | 08   | 19 | 35   | 18 | 27             | 41 |       |                     |                | 4911 5 |  |
| 1000                    | 05   | 16 | 35   | 04 | 27             | 71 | 1 626 |                     |                | 4882 6 |  |
| 1000                    | 05   | 16 | 35   | 04 | 27             | 71 |       |                     |                | 4882 6 |  |
| 1200                    | 04   | 34 | 35   | 01 | 27             | 78 | 1 723 |                     |                | 4882 3 |  |
| 1300                    | 04   | 04 | 35   | 00 | 27             | 80 |       |                     |                | 4883 6 |  |
| 1500                    | 03   | 67 | 34   | 98 | 27             | 83 | 1 854 |                     |                | 4889 5 |  |
| 1800                    | 03   | 66 | 34   | 97 | 27             | 82 |       |                     |                | 4905 9 |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |    |           |                               |                         |   |      |    |
|----------------------|---------|------|-----|------|------|----------|----|-----------|-------------------------------|-------------------------|---|------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |    |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |   |      |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |    | LONGITUDE |                               |                         |   |      |    |
| 31947                | 0033    | 05   | 24  | 1962 | 22   | 24       | 40 | N         | 077                           | 35                      | W | 1850 | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 14   |                | 17           | 27 8            | 22 2  |               | 01      | 0     | 0    | 11   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |          |    |                     |    |           |     |                          |                     |
|-------------------------|---------------------|-----------|----|----------|----|---------------------|----|-----------|-----|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S ‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 26        | 30 | 36       | 52 | 24                  | 11 | 0         | 000 |                          | 5050 9              |
| OBS                     | 0000                | 26        | 30 | 36       | 52 | 24                  | 11 |           |     |                          | 5050 9              |
| STD                     | 0010 †              | 25        | 79 | 36       | 52 | 24                  | 27 | 0         | 037 |                          | 5047 6              |
| STD                     | 0020 †              | 25        | 37 | 36       | 52 | 24                  | 40 | 0         | 074 |                          | 5045 0              |
| STD                     | 0030 †              | 25        | 03 | 36       | 52 | 24                  | 50 | 0         | 109 |                          | 5042 9              |
| OBS                     | 0040                | 24        | 79 | 36       | 52 | 24                  | 57 |           |     |                          | 5041 6              |
| STD                     | 0050                | 24        | 74 | 36       | 59 | 24                  | 64 | 0         | 176 |                          | 5042 0              |
| STD                     | 0075                | 24        | 63 | 36       | 71 | 24                  | 77 | 0         | 258 |                          | 5043 0              |
| OBS                     | 0075                | 24        | 63 | 36       | 71 | 24                  | 77 |           |     |                          | 5043 0              |
| STD                     | 0100                | 24        | 52 | 36       | 78 | 24                  | 85 | 0         | 338 |                          | 5043 7              |
| OBS                     | 0100                | 24        | 52 | 36       | 78 | 24                  | 85 |           |     |                          | 5043 7              |
| STD                     | 0150                | 23        | 72 | 36       | 83 | 25                  | 13 | 0         | 489 |                          | 5040 3              |
| OBS                     | 0150                | 23        | 72 | 36       | 83 | 25                  | 13 |           |     |                          | 5040 3              |
| OBS                     | 0175                | 23        | 29 | 36       | 88 | 25                  | 29 |           |     |                          | 5038 4              |
| STD                     | 0200                | 22        | 31 | 36       | 80 | 25                  | 52 | 0         | 626 |                          | 5031 4              |
| OBS                     | 0200                | 22        | 31 | 36       | 80 | 25                  | 52 |           |     |                          | 5031 4              |
| OBS                     | 0225                | 20        | 38 | 36       | 65 | 25                  | 94 |           |     |                          | 5015 7              |
| STD                     | 0250                | 19        | 42 | 36       | 57 | 26                  | 13 | 0         | 739 |                          | 5008 1              |
| OBS                     | 0250                | 19        | 42 | 36       | 57 | 26                  | 13 |           |     |                          | 5008 1              |
| STD                     | 0300                | 18        | 38 | 36       | 49 | 26                  | 33 | 0         | 834 |                          | 5000 9              |
| OBS                     | 0300                | 18        | 38 | 36       | 49 | 26                  | 33 |           |     |                          | 5000 9              |
| STD                     | 0400                | 16        | 57 | 36       | 24 | 26                  | 59 | 1         | 003 |                          | 4987 8              |
| STD                     | 0500                | 14        | 39 | 35       | 93 | 26                  | 84 | 1         | 151 |                          | 4969 7              |
| OBS                     | 0500                | 14        | 39 | 35       | 93 | 26                  | 84 |           |     |                          | 4969 7              |
| STD                     | 0600                | 11        | 84 | 35       | 56 | 27                  | 07 | 1         | 277 |                          | 4945 7              |
| OBS                     | 0600                | 11        | 84 | 35       | 56 | 27                  | 07 |           |     |                          | 4945 7              |
| OBS                     | 0650                | 10        | 69 | 35       | 40 | 27                  | 16 |           |     |                          | 4934 5              |
| OBS                     | 0700                | 09        | 68 | 35       | 30 | 27                  | 26 |           |     |                          | 4924 8              |
| OBS                     | 0750                | 08        | 88 | 35       | 22 | 27                  | 33 |           |     |                          | 4917 5              |
| STD                     | 0800                | 07        | 91 | 35       | 15 | 27                  | 43 | 1         | 473 |                          | 4907 8              |
| OBS                     | 0800                | 07        | 91 | 35       | 15 | 27                  | 43 |           |     |                          | 4907 8              |
| STD                     | 1000                | 05        | 14 | 35       | 03 | 27                  | 70 | 1         | 606 |                          | 4882 3              |
| OBS                     | 1000                | 05        | 14 | 35       | 03 | 27                  | 70 |           |     |                          | 4882 3              |
| STD                     | 1200                | 04        | 33 | 35       | 01 | 27                  | 78 | 1         | 703 |                          | 4882 2              |
| OBS                     | 1300                | 04        | 03 | 35       | 00 | 27                  | 80 |           |     |                          | 4883 5              |
| STD                     | 1500                | 03        | 66 | 34       | 99 | 27                  | 83 | 1         | 832 |                          | 4889 4              |
| OBS                     | 1800                | 03        | 65 | 34       | 98 | 27                  | 83 |           |     |                          | 4905 8              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |    |           |                               |                         |   |      |    |
|----------------------|---------|------|-----|------|------|----------|----|-----------|-------------------------------|-------------------------|---|------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |    |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |   |      |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |    | LONGITUDE |                               |                         |   |      |    |
| 31947                | 0034    | 05   | 25  | 1962 | 01   | 24       | 40 | N         | 077                           | 35                      | W | 1850 | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 11   |                | 18           | 25 3            | 21 7  |               | 01      | 0     | 1    | 10   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |        |           |    |         |    |                     |    |           |     |                          |  |                     |   |
|-------------------------|--------|-----------|----|---------|----|---------------------|----|-----------|-----|--------------------------|--|---------------------|---|
| SAMPLE<br>DEPTH (M)     |        | T °C<br>↓ |    | S‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ |  | V <sub>t</sub><br>↓ |   |
| STD                     | 0000   | 25        | 82 | 36      | 52 | 24                  | 26 | 0         | 000 |                          |  | 5047                | 3 |
| OBS                     | 0000   | 25        | 82 | 36      | 52 | 24                  | 26 |           |     |                          |  | 5047                | 3 |
| STD                     | 0010 † | 25        | 53 | 36      | 52 | 24                  | 35 | 0         | 036 |                          |  | 5045                | 7 |
| STD                     | 0020 † | 25        | 28 | 36      | 53 | 24                  | 43 | 0         | 072 |                          |  | 5044                | 3 |
| STD                     | 0030 † | 25        | 07 | 36      | 53 | 24                  | 50 | 0         | 107 |                          |  | 5043                | 3 |
| OBS                     | 0040   | 24        | 91 | 36      | 53 | 24                  | 54 |           |     |                          |  | 5042                | 6 |
| STD                     | 0050   | 24        | 91 | 36      | 62 | 24                  | 61 | 0         | 175 |                          |  | 5043                | 5 |
| STD                     | 0075   | 24        | 68 | 36      | 73 | 24                  | 77 | 0         | 257 |                          |  | 5043                | 4 |
| OBS                     | 0075   | 24        | 68 | 36      | 73 | 24                  | 77 |           |     |                          |  | 5043                | 4 |
| STD                     | 0100   | 24        | 12 | 36      | 67 | 24                  | 89 | 0         | 336 |                          |  | 5040                | 2 |
| OBS                     | 0100   | 24        | 12 | 36      | 67 | 24                  | 89 |           |     |                          |  | 5040                | 2 |
| STD                     | 0150   | 23        | 70 | 36      | 86 | 25                  | 16 | 0         | 486 |                          |  | 5040                | 3 |
| OBS                     | 0150   | 23        | 70 | 36      | 86 | 25                  | 16 |           |     |                          |  | 5040                | 3 |
| OBS                     | 0175   | 23        | 33 | 36      | 88 | 25                  | 28 |           |     |                          |  | 5038                | 7 |
| STD                     | 0200   | 22        | 18 | 36      | 72 | 25                  | 49 | 0         | 622 |                          |  | 5030                | 0 |
| OBS                     | 0200   | 22        | 18 | 36      | 72 | 25                  | 49 |           |     |                          |  | 5030                | 0 |
| OBS                     | 0225   | 20        | 88 | 36      | 67 | 25                  | 82 |           |     |                          |  | 5020                | 1 |
| STD                     | 0250   | 19        | 55 | 36      | 58 | 26                  | 10 | 0         | 737 |                          |  | 5009                | 3 |
| OBS                     | 0250   | 19        | 55 | 36      | 58 | 26                  | 10 |           |     |                          |  | 5009                | 3 |
| STD                     | 0300   | 18        | 39 | 36      | 49 | 26                  | 33 | 0         | 832 |                          |  | 5001                | 0 |
| OBS                     | 0300   | 18        | 39 | 36      | 49 | 26                  | 33 |           |     |                          |  | 5001                | 0 |
| STD                     | 0400   | 16        | 58 | 36      | 21 | 26                  | 56 | 1         | 003 |                          |  | 4987                | 8 |
| STD                     | 0500   | 14        | 39 | 35      | 91 | 26                  | 82 | 1         | 153 |                          |  | 4969                | 6 |
| OBS                     | 0500   | 14        | 39 | 35      | 91 | 26                  | 82 |           |     |                          |  | 4969                | 6 |
| STD                     | 0600   | 11        | 83 | 35      | 58 | 27                  | 09 | 1         | 279 |                          |  | 4945                | 7 |
| OBS                     | 0600   | 11        | 83 | 35      | 58 | 27                  | 09 |           |     |                          |  | 4945                | 7 |
| OBS                     | 0650   | 10        | 74 | 35      | 45 | 27                  | 19 |           |     |                          |  | 4935                | 3 |
| OBS                     | 0700   | 09        | 74 | 35      | 31 | 27                  | 26 |           |     |                          |  | 4925                | 6 |
| OBS                     | 0750   | 09        | 06 | 35      | 24 | 27                  | 32 |           |     |                          |  | 4919                | 7 |
| STD                     | 0800   | 07        | 88 | 35      | 17 | 27                  | 45 | 1         | 471 |                          |  | 4907                | 5 |
| OBS                     | 0800   | 07        | 88 | 35      | 17 | 27                  | 45 |           |     |                          |  | 4907                | 5 |
| STD                     | 1000   | 05        | 16 | 35      | 03 | 27                  | 70 | 1         | 602 |                          |  | 4882                | 5 |
| OBS                     | 1000   | 05        | 16 | 35      | 03 | 27                  | 70 |           |     |                          |  | 4882                | 5 |
| STD                     | 1200   | 04        | 36 | 35      | 00 | 27                  | 77 | 1         | 701 |                          |  | 4882                | 5 |
| OBS                     | 1300   | 04        | 06 | 34      | 99 | 27                  | 79 |           |     |                          |  | 4883                | 9 |
| STD                     | 1500   | 03        | 68 |         |    |                     |    |           |     |                          |  |                     |   |
| OBS                     | 1800   | 03        | 65 |         |    |                     |    |           |     |                          |  |                     |   |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |    |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |    |
| 31947                | 0035    | 05   | 25  | 1962 | 04   | 24       | 40 N | 077       | 35 W                          | 1850                    | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 07    | 13   |                | 19           | 26              | 21    | 7             |         | 02    | 8    | 1    | 12   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |          |    |                     |    |           |                          |                     |  |
|-------------------------|---------------------|-----------|----|----------|----|---------------------|----|-----------|--------------------------|---------------------|--|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S ‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | Q <sub>2m</sub> / h<br>↓ | V <sub>t</sub><br>↓ |  |
| STD                     | 0000                | 25        | 69 | 36       | 50 | 24                  | 28 | 0 000     |                          | 5046 3              |  |
| OBS                     | 0000                | 25        | 69 | 36       | 50 | 24                  | 28 |           |                          | 5046 3              |  |
| STD                     | 0010 †              | 25        | 49 | 36       | 51 | 24                  | 35 | 0 036     |                          | 5045 3              |  |
| STD                     | 0020 †              | 25        | 30 | 36       | 51 | 24                  | 41 | 0 072     |                          | 5044 4              |  |
| STD                     | 0030 †              | 25        | 11 | 36       | 51 | 24                  | 47 | 0 107     |                          | 5043 5              |  |
| OBS                     | 0040                | 24        | 92 | 36       | 52 | 24                  | 53 |           |                          | 5042 6              |  |
| STD                     | 0050                | 24        | 64 | 36       | 54 | 24                  | 63 | 0 175     |                          | 5041 1              |  |
| STD                     | 0075                | 24        | 27 | 36       | 59 | 24                  | 78 | 0 257     |                          | 5039 7              |  |
| OBS                     | 0075                | 24        | 27 | 36       | 59 | 24                  | 78 |           |                          | 5039 7              |  |
| STD                     | 0100                | 24        | 37 | 36       | 74 | 24                  | 87 | 0 336     |                          | 5042 4              |  |
| OBS                     | 0100                | 24        | 37 | 36       | 74 | 24                  | 87 |           |                          | 5042 4              |  |
| STD                     | 0150                | 23        | 66 | 36       | 83 | 25                  | 15 | 0 487     |                          | 5039 8              |  |
| OBS                     | 0150                | 23        | 66 | 36       | 83 | 25                  | 15 |           |                          | 5039 8              |  |
| OBS                     | 0175                | 23        | 29 | 36       | 86 | 25                  | 28 |           |                          | 5038 3              |  |
| STD                     | 0200                | 22        | 42 | 36       | 75 | 25                  | 45 | 0 624     |                          | 5032 1              |  |
| OBS                     | 0200                | 22        | 42 | 36       | 75 | 25                  | 45 |           |                          | 5032 1              |  |
| OBS                     | 0225                | 21        | 13 | 36       | 70 | 25                  | 77 |           |                          | 5022 4              |  |
| STD                     | 0250                | 19        | 67 | 36       | 58 | 26                  | 07 | 0 741     |                          | 5010 4              |  |
| OBS                     | 0250                | 19        | 67 | 36       | 58 | 26                  | 07 |           |                          | 5010 4              |  |
| STD                     | 0300                | 18        | 42 | 36       | 48 | 26                  | 32 | 0 837     |                          | 5001 2              |  |
| OBS                     | 0300                | 18        | 42 | 36       | 48 | 26                  | 32 |           |                          | 5001 2              |  |
| STD                     | 0400                | 16        | 85 | 36       | 28 | 26                  | 55 | 1 010     |                          | 4990 8              |  |
| STD                     | 0500                | 14        | 64 | 35       | 96 | 26                  | 81 | 1 161     |                          | 4972 5              |  |
| OBS                     | 0500                | 14        | 64 | 35       | 96 | 26                  | 81 |           |                          | 4972 5              |  |
| STD                     | 0600                | 11        | 78 | 35       | 53 | 27                  | 06 | 1 289     |                          | 4944 9              |  |
| OBS                     | 0600                | 11        | 78 | 35       | 53 | 27                  | 06 |           |                          | 4944 9              |  |
| OBS                     | 0650                | 10        | 68 | 35       | 39 | 27                  | 16 |           |                          | 4934 3              |  |
| OBS                     | 0700                | 09        | 84 | 35       | 31 | 27                  | 24 |           |                          | 4926 8              |  |
| OBS                     | 0750                | 09        | 17 | 35       | 24 | 27                  | 30 |           |                          | 4921 1              |  |
| STD                     | 0800                | 08        | 45 | 35       | 18 | 27                  | 37 | 1 492     |                          | 4914 7              |  |
| OBS                     | 0800                | 08        | 45 | 35       | 18 | 27                  | 37 |           |                          | 4914 7              |  |
| STD                     | 1000                | 05        | 25 | 35       | 03 | 27                  | 69 | 1 633     |                          | 4883 7              |  |
| OBS                     | 1000                | 05        | 25 | 35       | 03 | 27                  | 69 |           |                          | 4883 7              |  |
| STD                     | 1200                | 04        | 45 | 35       | 00 | 27                  | 76 | 1 734     |                          | 4883 7              |  |
| OBS                     | 1300                | 04        | 15 | 34       | 99 | 27                  | 78 |           |                          | 4885 1              |  |
| STD                     | 1500                | 03        | 76 | 34       | 98 | 27                  | 82 | 1 869     |                          | 4890 7              |  |
| OBS                     | 1800                | 03        | 68 | 34       | 97 | 27                  | 82 |           |                          | 4906 1              |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0036    | 05   | 25  | 1962 | 07   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | Vis. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 14   |                | 18           | 24              | 9     | 21            | 6       | 00    | 0    | 0    | 15   | 1     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |        |           |    |           |     |                     |     |           |     |                          |                     |
|-------------------------|--------|-----------|----|-----------|-----|---------------------|-----|-----------|-----|--------------------------|---------------------|
| SAMPLE<br>DEPTH (M)     |        | T °C<br>↓ |    | S‰ O<br>↓ |     | σ <sub>t</sub><br>↓ |     | Σ ΔD<br>↓ |     | O <sub>sm</sub> l/t<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000   | 25        | 64 | 36        | 50  | 24                  | 30  | 0         | 000 |                          | 5045 9              |
| OBS                     | 0000   | 25        | 64 | 36        | 50  | 24                  | 30  |           |     |                          | 5045 9              |
| STD                     | 0010 † | 25        | 46 | 36        | 50  | 24                  | 35  | 0         | 036 |                          | 5045 1              |
| STD                     | 0020 † | 25        | 28 | 36        | 51  | 24                  | 42  | 0         | 072 |                          | 5044 3              |
| STD                     | 0030 † | 25        | 10 | 36        | 51  | 24                  | 47  | 0         | 107 |                          | 5043 4              |
| OBS                     | 0040   | 24        | 92 | 36        | 51  | 24                  | 53  |           |     |                          | 5042 6              |
| STD                     | 0050   | 24        | 67 | 36        | 52  | 24                  | 61  | 0         | 175 |                          | 5041 2              |
| STD                     | 0075   | 24        | 29 | 36        | 55  | 24                  | 75  | 0         | 258 |                          | 5039 7              |
| OBS                     | 0075   | 24        | 29 | 36        | 55  | 24                  | 75  |           |     |                          | 5039 7              |
| STD                     | 0100   | 24        | 25 | 36        | 70  | 24                  | 87  | 0         | 337 |                          | 5041 3              |
| OBS                     | 0100   | 24        | 25 | 36        | 70  | 24                  | 87  |           |     |                          | 5041 3              |
| STD                     | 0150   | 23        | 71 | 36        | 82  | 25                  | 12  | 0         | 488 |                          | 5040 2              |
| OBS                     | 0150   | 23        | 71 | 36        | 82  | 25                  | 12  |           |     |                          | 5040 2              |
| OBS                     | 0175   | 23        | 29 | 36        | 83  | 25                  | 26  |           |     |                          | 5038 2              |
| STD                     | 0200   | 22        | 33 | 36        | 71  | 25                  | 44  | 0         | 620 |                          | 5031 2              |
| OBS                     | 0200   | 22        | 33 | 36        | 71  | 25                  | 44  |           |     |                          | 5031 2              |
| OBS                     | 0225   | 20        | 68 | 36        | 67  | 25                  | 87  |           |     |                          | 5018 4              |
| STD                     | 0250   | 19        | 64 | 36        | 62  | 26                  | 11  | 0         | 742 |                          | 5010 3              |
| OBS                     | 0250   | 19        | 64 | 36        | 48* | 26                  | 00* |           |     |                          |                     |
| STD                     | 0300   | 18        | 36 | 36        | 50  | 26                  | 35  | 0         | 837 |                          | 5000 7              |
| OBS                     | 0300   | 18        | 36 | 36        | 50  | 26                  | 35  |           |     |                          | 5000 7              |
| STD                     | 0400   | 16        | 85 | 36        | 26  | 26                  | 53  | 1         | 009 |                          | 4990 7              |
| STD                     | 0500   | 14        | 65 | 35        | 94  | 26                  | 79  | 1         | 161 |                          | 4972 5              |
| OBS                     | 0500   | 14        | 65 | 35        | 94  | 26                  | 79  |           |     |                          | 4972 5              |
| STD                     | 0600   | 11        | 75 | 35        | 54  | 27                  | 07  | 1         | 289 |                          | 4944 6              |
| OBS                     | 0600   | 11        | 75 | 35        | 54  | 27                  | 07  |           |     |                          | 4944 6              |
| OBS                     | 0650   | 10        | 37 | 35        | 36  | 27                  | 19  |           |     |                          | 4930 6              |
| OBS                     | 0700   | 09        | 65 | 35        | 29  | 27                  | 26  |           |     |                          | 4924 4              |
| OBS                     | 0750   | 09        | 08 | 35        | 24  | 27                  | 31  |           |     |                          | 4920 0              |
| STD                     | 0800   | 08        | 39 | 35        | 18  | 27                  | 38  | 1         | 490 |                          | 4914 0              |
| OBS                     | 0800   | 08        | 39 | 35        | 18  | 27                  | 38  |           |     |                          | 4914 0              |
| STD                     | 1000   | 05        | 31 | 35        | 04  | 27                  | 69  | 1         | 630 |                          | 4884 6              |
| OBS                     | 1000   | 05        | 31 | 35        | 04  | 27                  | 69  |           |     |                          | 4884 6              |
| STD                     | 1200   | 04        | 45 | 35        | 00  | 27                  | 76  | 1         | 731 |                          | 4883 7              |
| OBS                     | 1300   | 04        | 13 | 34        | 99  | 27                  | 79  |           |     |                          | 4884 8              |
| STD                     | 1500   | 03        | 72 | 34        | 97  | 27                  | 81  | 1         | 867 |                          | 4890 1              |
| OBS                     | 1800   | 03        | 65 | 34        | 97  | 27                  | 82  |           |     |                          | 4905 7              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0037    | 05   | 25  | 1962 | 10   | 24       | 40 N | 077       | 35 W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |            | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|------------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY $\Psi$      | WET $\Psi$ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 10   |                | 17           | 25              | 0          | 22            | 1       | 00    | 0    | 0    | 12   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |            |    |                     |    |           |                           |                     |
|-------------------------|---------------------|-----------|----|------------|----|---------------------|----|-----------|---------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S % O<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | Q <sub>2</sub> m/l/h<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 25        | 63 | 36         | 50 | 24                  | 30 | 0 000     |                           | 5045 8              |
| OBS                     | 0000                | 25        | 63 | 36         | 50 | 24                  | 30 |           |                           | 5045 8              |
| STD                     | 0010 †              | 25        | 44 | 36         | 50 | 24                  | 36 | 0 036     |                           | 5044 9              |
| STD                     | 0020 †              | 25        | 25 | 36         | 49 | 24                  | 41 | 0 072     |                           | 5044 0              |
| STD                     | 0030 †              | 25        | 07 | 36         | 49 | 24                  | 47 | 0 107     |                           | 5043 1              |
| OBS                     | 0040                | 24        | 89 | 36         | 49 | 24                  | 52 |           |                           | 5042 3              |
| STD                     | 0050                | 24        | 65 | 36         | 51 | 24                  | 61 | 0 175     |                           | 5041 0              |
| STD                     | 0075                | 24        | 30 | 36         | 55 | 24                  | 74 | 0 258     |                           | 5039 8              |
| OBS                     | 0075                | 24        | 30 | 36         | 55 | 24                  | 74 |           |                           | 5039 8              |
| STD                     | 0100                | 24        | 28 | 36         | 68 | 24                  | 85 | 0 338     |                           | 5041 5              |
| OBS                     | 0100                | 24        | 28 | 36         | 68 | 24                  | 85 |           |                           | 5041 5              |
| STD                     | 0150                | 23        | 82 | 36         | 86 | 25                  | 12 | 0 489     |                           | 5041 2              |
| OBS                     | 0150                | 23        | 82 | 36         | 86 | 25                  | 12 |           |                           | 5041 2              |
| OBS                     | 0175                | 23        | 33 | 36         | 80 | 25                  | 22 |           |                           | 5038 4              |
| STD                     | 0200                | 22        | 49 | 36         | 72 | 25                  | 40 | 0 628     |                           | 5032 6              |
| OBS                     | 0200                | 22        | 49 | 36         | 72 | 25                  | 40 |           |                           | 5032 6              |
| OBS                     | 0225                | 21        | 25 | 36         | 71 | 25                  | 74 |           |                           | 5023 5              |
| STD                     | 0250                | 19        | 88 | 36         | 59 | 26                  | 02 | 0 747     |                           | 5012 3              |
| OBS                     | 0250                | 19        | 88 | 36         | 59 | 26                  | 02 |           |                           | 5012 3              |
| STD                     | 0300                | 18        | 48 | 36         | 49 | 26                  | 31 | 0 845     |                           | 5001 8              |
| OBS                     | 0300                | 18        | 48 | 36         | 49 | 26                  | 31 |           |                           | 5001 8              |
| STD                     | 0400                | 17        | 08 | 36         | 29 | 26                  | 50 | 1 020     |                           | 4993 1              |
| STD                     | 0500                | 14        | 92 | 35         | 98 | 26                  | 76 | 1 176     |                           | 4975 5              |
| OBS                     | 0500                | 14        | 92 | 35         | 98 | 26                  | 76 |           |                           | 4975 5              |
| STD                     | 0600                | 11        | 99 | 35         | 56 | 27                  | 04 | 1 307     |                           | 4947 4              |
| OBS                     | 0600                | 11        | 99 | 35         | 56 | 27                  | 04 |           |                           | 4947 4              |
| OBS                     | 0650                | 11        | 09 | 35         | 44 | 27                  | 12 |           |                           | 4939 3              |
| OBS                     | 0700                | 10        | 03 | 35         | 34 | 27                  | 23 |           |                           | 4929 1              |
| OBS                     | 0750                | 09        | 22 | 35         | 25 | 27                  | 30 |           |                           | 4921 7              |
| STD                     | 0800                | 08        | 69 | 35         | 20 | 27                  | 34 | 1 514     |                           | 4917 7              |
| OBS                     | 0800                | 08        | 69 | 35         | 20 | 27                  | 34 |           |                           | 4917 7              |
| STD                     | 1000                | 05        | 33 | 35         | 04 | 27                  | 69 | 1 658     |                           | 4884 8              |
| OBS                     | 1000                | 05        | 33 | 35         | 04 | 27                  | 69 |           |                           | 4884 8              |
| STD                     | 1200                | 04        | 50 | 35         | 01 | 27                  | 76 | 1 759     |                           | 4884 5              |
| OBS                     | 1300                | 04        | 19 | 35         | 00 | 27                  | 79 |           |                           | 4885 7              |
| STD                     | 1500                | 03        | 78 | 34         | 98 | 27                  | 81 | 1 895     |                           | 4891 0              |
| OBS                     | 1800                | 03        | 69 | 34         | 97 | 27                  | 82 |           |                           | 4906 3              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| WDC<br>REF.<br>NO.   | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0038    | 05   | 25  | 1962 | 13   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY °           | WET ° |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 19           | 26.6            | 22.8  |               | 01      | 8     | 1    | 10   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |       |           |    |           |    |                     |    |           |     |                          |  |                     |   |
|-------------------------|-------|-----------|----|-----------|----|---------------------|----|-----------|-----|--------------------------|--|---------------------|---|
| SAMPLE<br>DEPTH (M)     |       | T °C<br>↓ |    | S‰ O<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ |  | V <sub>l</sub><br>↓ |   |
| STD                     | 0000  | 25        | 64 | 36        | 49 | 24                  | 29 | 0         | 000 |                          |  | 5045                | 8 |
| OBS                     | 0000  | 25        | 64 | 36        | 49 | 24                  | 29 |           |     |                          |  | 5045                | 8 |
| STD                     | 0010† | 25        | 40 | 36        | 49 | 24                  | 36 | 0         | 036 |                          |  | 5044                | 6 |
| STD                     | 0020† | 25        | 18 | 36        | 50 | 24                  | 44 | 0         | 072 |                          |  | 5043                | 5 |
| STD                     | 0030† | 24        | 98 | 36        | 50 | 24                  | 50 | 0         | 106 |                          |  | 5042                | 5 |
| OBS                     | 0040  | 24        | 80 | 36        | 50 | 24                  | 56 |           |     |                          |  | 5041                | 6 |
| STD                     | 0050  | 24        | 63 | 36        | 51 | 24                  | 61 | 0         | 174 |                          |  | 5040                | 9 |
| STD                     | 0075  | 24        | 32 | 36        | 55 | 24                  | 74 | 0         | 257 |                          |  | 5040                | 0 |
| OBS                     | 0075  | 24        | 32 | 36        | 55 | 24                  | 74 |           |     |                          |  | 5040                | 0 |
| STD                     | 0100  | 24        | 15 | 36        | 65 | 24                  | 87 | 0         | 337 |                          |  | 5040                | 4 |
| OBS                     | 0100  | 24        | 15 | 36        | 65 | 24                  | 87 |           |     |                          |  | 5040                | 4 |
| STD                     | 0150  | 23        | 73 | 36        | 83 | 25                  | 13 | 0         | 488 |                          |  | 5040                | 4 |
| OBS                     | 0150  | 23        | 73 | 36        | 83 | 25                  | 13 |           |     |                          |  | 5040                | 4 |
| OBS                     | 0175  | 23        | 45 | 36        | 84 | 25                  | 22 |           |     |                          |  | 5039                | 5 |
| STD                     | 0200  | 22        | 30 | 36        | 71 | 25                  | 45 | 0         | 626 |                          |  | 5031                | 0 |
| OBS                     | 0200  | 22        | 30 | 36        | 71 | 25                  | 45 |           |     |                          |  | 5031                | 0 |
| OBS                     | 0225  | 20        | 97 | 36        | 68 | 25                  | 80 |           |     |                          |  | 5020                | 9 |
| STD                     | 0250  | 19        | 74 | 36        | 59 | 26                  | 06 | 0         | 742 |                          |  | 5011                | 1 |
| OBS                     | 0250  | 19        | 74 | 36        | 59 | 26                  | 06 |           |     |                          |  | 5011                | 1 |
| STD                     | 0300  | 18        | 54 | 36        | 50 | 26                  | 30 | 0         | 840 |                          |  | 5002                | 4 |
| OBS                     | 0300  | 18        | 54 | 36        | 50 | 26                  | 30 |           |     |                          |  | 5002                | 4 |
| STD                     | 0400  | 16        | 94 | 36        | 28 | 26                  | 53 | 1         | 014 |                          |  | 4991                | 6 |
| STD                     | 0500  | 14        | 74 | 35        | 96 | 26                  | 79 | 1         | 167 |                          |  | 4973                | 5 |
| OBS                     | 0500  | 14        | 74 | 35        | 96 | 26                  | 79 |           |     |                          |  | 4973                | 5 |
| STD                     | 0600  | 11        | 94 | 35        | 55 | 27                  | 05 | 1         | 297 |                          |  | 4946                | 8 |
| OBS                     | 0600  | 11        | 94 | 35        | 55 | 27                  | 05 |           |     |                          |  | 4946                | 8 |
| OBS                     | 0650  | 10        | 95 | 35        | 44 | 27                  | 15 |           |     |                          |  | 4937                | 7 |
| OBS                     | 0700  | 09        | 81 | 35        | 32 | 27                  | 25 |           |     |                          |  | 4926                | 4 |
| OBS                     | 0750  | 08        | 99 | 35        | 23 | 27                  | 32 |           |     |                          |  | 4918                | 8 |
| STD                     | 0800  | 08        | 46 | 35        | 18 | 27                  | 36 | 1         | 502 |                          |  | 4914                | 8 |
| OBS                     | 0800  | 08        | 46 | 35        | 18 | 27                  | 36 |           |     |                          |  | 4914                | 8 |
| STD                     | 1000  | 05        | 19 | 35        | 04 | 27                  | 71 | 1         | 641 |                          |  | 4883                | 0 |
| OBS                     | 1000  | 05        | 19 | 35        | 04 | 27                  | 71 |           |     |                          |  | 4883                | 0 |
| STD                     | 1200  | 04        | 41 | 35        | 02 | 27                  | 78 | 1         | 739 |                          |  | 4883                | 3 |
| OBS                     | 1300  | 04        | 12 | 35        | 01 | 27                  | 80 |           |     |                          |  | 4884                | 8 |
| STD                     | 1500  | 03        | 74 | 35        | 00 | 27                  | 83 | 1         | 869 |                          |  | 4890                | 5 |
| OBS                     | 1800  | 03        | 68 | 34        | 98 | 27                  | 82 |           |     |                          |  | 4906                | 2 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0039    | 05   | 25  | 1962 | 16   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 07   |                | 20           | 26 1            | 22 2  |               | 02      | 8     | 2    | 09   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |                     |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|---------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q <sub>σm</sub> 1/1 | V <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  |       |                     |                |
| STD                     | 0000                | 25   | 96 | 36  | 51 | 24             | 21 | 0 000 |                     | 5048 3         |
| OBS                     | 0000                | 25   | 96 | 36  | 51 | 24             | 21 |       |                     | 5048 3         |
| STD                     | 0010 †              | 25   | 65 | 36  | 50 | 24             | 29 | 0 037 |                     | 5046 5         |
| STD                     | 0020 †              | 25   | 37 | 36  | 50 | 24             | 38 | 0 073 |                     | 5044 9         |
| STD                     | 0030 †              | 25   | 13 | 36  | 49 | 24             | 45 | 0 108 |                     | 5043 6         |
| OBS                     | 0040                | 24   | 92 | 36  | 49 | 24             | 51 |       |                     | 5042 5         |
| STD                     | 0050                | 24   | 78 | 36  | 51 | 24             | 57 | 0 177 |                     | 5042 1         |
| STD                     | 0075                | 24   | 45 | 36  | 58 | 24             | 72 | 0 260 |                     | 5041 1         |
| OBS                     | 0075                | 24   | 45 | 36  | 58 | 24             | 72 |       |                     | 5041 1         |
| STD                     | 0100                | 24   | 16 | 36  | 68 | 24             | 88 | 0 340 |                     | 5040 5         |
| OBS                     | 0100                | 24   | 16 | 36  | 68 | 24             | 88 |       |                     | 5040 5         |
| STD                     | 0150                | 23   | 73 | 36  | 83 | 25             | 13 | 0 491 |                     | 5040 4         |
| OBS                     | 0150                | 23   | 73 | 36  | 83 | 25             | 13 |       |                     | 5040 4         |
| OBS                     | 0175                | 23   | 36 | 36  | 85 | 25             | 25 |       |                     | 5038 9         |
| STD                     | 0200                | 22   | 37 | 36  | 78 | 25             | 48 | 0 628 |                     | 5031 8         |
| OBS                     | 0200                | 22   | 37 | 36  | 78 | 25             | 48 |       |                     | 5031 8         |
| OBS                     | 0225                | 21   | 19 | 36  | 70 | 25             | 75 |       |                     | 5022 9         |
| STD                     | 0250                | 19   | 50 | 36  | 59 | 26             | 12 | 0 742 |                     | 5008 9         |
| OBS                     | 0250                | 19   | 50 | 36  | 59 | 26             | 12 |       |                     | 5008 9         |
| STD                     | 0300                | 18   | 49 | 36  | 50 | 26             | 31 | 0 838 |                     | 5002 0         |
| OBS                     | 0300                | 18   | 49 | 36  | 50 | 26             | 31 |       |                     | 5002 0         |
| STD                     | 0400                | 16   | 76 | 36  | 24 | 26             | 54 | 1 011 |                     | 4989 7         |
| STD                     | 0500                | 14   | 52 | 35  | 92 | 26             | 80 | 1 162 |                     | 4971 0         |
| OBS                     | 0500                | 14   | 52 | 35  | 92 | 26             | 80 |       |                     | 4971 0         |
| STD                     | 0600                | 11   | 77 | 35  | 55 | 27             | 08 | 1 290 |                     | 4944 8         |
| OBS                     | 0600                | 11   | 77 | 35  | 55 | 27             | 08 |       |                     | 4944 8         |
| OBS                     | 0650                | 10   | 75 | 35  | 38 | 27             | 14 |       |                     | 4935 1         |
| OBS                     | 0700                | 09   | 68 | 35  | 30 | 27             | 26 |       |                     | 4924 8         |
| OBS                     | 0750                | 09   | 09 | 35  | 22 | 27             | 30 |       |                     | 4920 0         |
| STD                     | 0800                | 08   | 61 | 35  | 20 | 27             | 36 | 1 492 |                     | 4916 8         |
| OBS                     | 0800                | 08   | 61 | 35  | 20 | 27             | 36 |       |                     | 4916 8         |
| STD                     | 1000                | 05   | 17 | 35  | 03 | 27             | 70 | 1 633 |                     | 4882 7         |
| OBS                     | 1000                | 05   | 17 | 35  | 03 | 27             | 70 |       |                     | 4882 7         |
| STD                     | 1200                | 04   | 39 | 35  | 01 | 27             | 77 | 1 732 |                     | 4883 0         |
| OBS                     | 1300                | 04   | 10 | 35  | 00 | 27             | 80 |       |                     | 4884 5         |
| STD                     | 1500                | 03   | 73 | 34  | 99 | 27             | 83 | 1 863 |                     | 4890 3         |
| OBS                     | 1800                | 03   | 67 | 34  | 99 | 27             | 83 |       |                     | 4906 1         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0040    | 05   | 25  | 1962 | 19   | 24       | 40 N | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA. |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 11   |                | 18           | 28 2            | 23 8  |               | 01      | 8     | 1    | 09   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |        |           |    |         |    |                     |    |           |     |                         |  |                     |   |
|-------------------------|--------|-----------|----|---------|----|---------------------|----|-----------|-----|-------------------------|--|---------------------|---|
| SAMPLE<br>DEPTH (M)     |        | T °C<br>↓ |    | S‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | Q <sub>2m</sub> /h<br>↓ |  | V <sub>t</sub><br>↓ |   |
| STD                     | 0000   | 26        | 58 | 36      | 52 | 24                  | 02 | 0         | 000 |                         |  | 5052                | 9 |
| OBS                     | 0000   | 26        | 58 | 36      | 52 | 24                  | 02 |           |     |                         |  | 5052                | 9 |
| STD                     | 0010 † | 26        | 04 | 36      | 51 | 24                  | 18 | 0         | 038 |                         |  | 5049                | 5 |
| STD                     | 0020 † | 25        | 59 | 36      | 51 | 24                  | 32 | 0         | 075 |                         |  | 5046                | 6 |
| STD                     | 0030 † | 25        | 21 | 36      | 50 | 24                  | 43 | 0         | 111 |                         |  | 5044                | 2 |
| OBS                     | 0040   | 24        | 92 | 36      | 50 | 24                  | 52 |           |     |                         |  | 5042                | 6 |
| STD                     | 0050   | 24        | 84 | 36      | 54 | 24                  | 57 | 0         | 180 |                         |  | 5042                | 6 |
| STD                     | 0075   | 24        | 55 | 36      | 62 | 24                  | 72 | 0         | 263 |                         |  | 5042                | 0 |
| OBS                     | 0075   | 24        | 55 | 36      | 62 | 24                  | 72 |           |     |                         |  | 5042                | 0 |
| STD                     | 0100   | 24        | 15 | 36      | 68 | 24                  | 89 | 0         | 343 |                         |  | 5040                | 5 |
| OBS                     | 0100   | 24        | 15 | 36      | 68 | 24                  | 89 |           |     |                         |  | 5040                | 5 |
| STD                     | 0150   | 23        | 91 | 36      | 91 | 25                  | 13 | 0         | 493 |                         |  | 5042                | 1 |
| OBS                     | 0150   | 23        | 91 | 36      | 91 | 25                  | 13 |           |     |                         |  | 5042                | 1 |
| OBS                     | 0175   | 23        | 33 | 36      | 85 | 25                  | 26 |           |     |                         |  | 5038                | 6 |
| STD                     | 0200   | 22        | 51 | 36      | 79 | 25                  | 45 | 0         | 631 |                         |  | 5033                | 0 |
| OBS                     | 0200   | 22        | 51 | 36      | 79 | 25                  | 45 |           |     |                         |  | 5033                | 0 |
| OBS                     | 0225   | 20        | 40 | 36      | 65 | 25                  | 93 |           |     |                         |  | 5015                | 8 |
| STD                     | 0250   | 19        | 16 | 36      | 55 | 26                  | 18 | 0         | 745 |                         |  | 5005                | 7 |
| OBS                     | 0250   | 19        | 16 | 36      | 55 | 26                  | 18 |           |     |                         |  | 5005                | 7 |
| STD                     | 0300   | 18        | 28 | 36      | 48 | 26                  | 35 | 0         | 838 |                         |  | 4999                | 9 |
| OBS                     | 0300   | 18        | 28 | 36      | 48 | 26                  | 35 |           |     |                         |  | 4999                | 9 |
| STD                     | 0400   | 16        | 65 | 36      | 24 | 26                  | 57 | 1         | 008 |                         |  | 4988                | 6 |
| STD                     | 0500   | 14        | 45 | 35      | 92 | 26                  | 82 | 1         | 157 |                         |  | 4970                | 3 |
| OBS                     | 0500   | 14        | 45 | 35      | 92 | 26                  | 82 |           |     |                         |  | 4970                | 3 |
| STD                     | 0600   | 11        | 68 | 35      | 53 | 27                  | 08 | 1         | 284 |                         |  | 4943                | 7 |
| OBS                     | 0600   | 11        | 68 | 35      | 53 | 27                  | 08 |           |     |                         |  | 4943                | 7 |
| OBS                     | 0650   | 10        | 38 | 35      | 37 | 27                  | 19 |           |     |                         |  | 4930                | 7 |
| OBS                     | 0700   | 09        | 55 | 35      | 29 | 27                  | 27 |           |     |                         |  | 4923                | 2 |
| OBS                     | 0750   | 08        | 98 | 35      | 22 | 27                  | 31 |           |     |                         |  | 4918                | 7 |
| STD                     | 0800   | 08        | 50 | 35      | 19 | 27                  | 37 | 1         | 485 |                         |  | 4915                | 4 |
| OBS                     | 0800   | 08        | 50 | 35      | 19 | 27                  | 37 |           |     |                         |  | 4915                | 4 |
| STD                     | 1000   | 05        | 20 | 35      | 04 | 27                  | 70 | 1         | 625 |                         |  | 4883                | 1 |
| OBS                     | 1000   | 05        | 20 | 35      | 04 | 27                  | 70 |           |     |                         |  | 4883                | 1 |
| STD                     | 1200   | 04        | 40 | 35      | 00 | 27                  | 76 | 1         | 724 |                         |  | 4883                | 1 |
| OBS                     | 1300   | 04        | 10 | 34      | 99 | 27                  | 79 |           |     |                         |  | 4884                | 4 |
| STD                     | 1500   | 03        | 72 | 34      | 97 | 27                  | 81 | 1         | 859 |                         |  | 4890                | 1 |
| OBS                     | 1800   | 03        | 68 | 34      | 96 | 27                  | 81 |           |     |                         |  | 4906                | 1 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0041    | 05   | 25  | 1962 | 22   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 11   |                | 18           | 27 8            | 23 3  |               | 01      | 8     | 1    | 10   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |        |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|--------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q, m/l | V <sub>t</sub> |
| STD                     | 0000                | 26   | 20 | 36  | 50 | 24             | 12 | 0 000 |        | 5050 1         |
| OBS                     | 0000                | 26   | 20 | 36  | 50 | 24             | 12 |       |        | 5050 1         |
| STD                     | 0010 †              | 25   | 19 | 36  | 51 | 24             | 26 | 0 037 |        | 5047 6         |
| STD                     | 0020 †              | 25   | 18 | 36  | 51 | 24             | 37 | 0 074 |        | 5045 4         |
| STD                     | 0030 †              | 25   | 12 | 36  | 51 | 24             | 47 | 0 109 |        | 5043 6         |
| OBS                     | 0040                | 24   | 85 | 36  | 52 | 24             | 56 |       |        | 5042 1         |
| STD                     | 0050                | 24   | 66 | 36  | 53 | 24             | 62 | 0 177 |        | 5041 2         |
| STD                     | 0075                | 24   | 29 | 36  | 56 | 24             | 76 | 0 260 |        | 5039 8         |
| OBS                     | 0075                | 24   | 29 | 36  | 56 | 24             | 76 |       |        | 5039 8         |
| STD                     | 0100                | 24   | 09 | 36  | 69 | 24             | 91 | 0 339 |        | 5040 0         |
| OBS                     | 0100                | 24   | 09 | 36  | 69 | 24             | 91 |       |        | 5040 0         |
| STD                     | 0150                | 23   | 82 | 36  | 89 | 25             | 15 | 0 488 |        | 5041 3         |
| OBS                     | 0150                | 23   | 82 | 36  | 89 | 25             | 15 |       |        | 5041 3         |
| OBS                     | 0175                | 23   | 11 | 36  | 82 | 25             | 30 |       |        | 5036 7         |
| STD                     | 0200                | 22   | 03 | 36  | 75 | 25             | 56 | 0 623 |        | 5028 9         |
| OBS                     | 0200                | 22   | 03 | 36  | 75 | 25             | 56 |       |        | 5028 9         |
| OBS                     | 0225                | 20   | 31 | 36  | 62 | 25             | 93 |       |        | 5014 9         |
| STD                     | 0250                | 19   | 16 | 36  | 56 | 26             | 19 | 0 734 |        | 5005 7         |
| OBS                     | 0250                | 19   | 16 | 36  | 56 | 26             | 19 |       |        | 5005 7         |
| STD                     | 0300                | 18   | 21 | 36  | 46 | 26             | 35 | 0 827 |        | 4999 2         |
| OBS                     | 0300                | 18   | 21 | 36  | 46 | 26             | 35 |       |        | 4999 2         |
| STD                     | 0400                | 16   | 68 | 36  | 27 | 26             | 58 | 0 996 |        | 4989 1         |
| STD                     | 0500                | 14   | 57 | 35  | 97 | 26             | 83 | 1 144 |        | 4971 8         |
| OBS                     | 0500                | 14   | 57 | 35  | 97 | 26             | 83 |       |        | 4971 8         |
| STD                     | 0600                | 11   | 87 | 35  | 56 | 27             | 07 | 1 271 |        | 4946 0         |
| OBS                     | 0600                | 11   | 87 | 35  | 56 | 27             | 07 |       |        | 4946 0         |
| OBS                     | 0650                | 10   | 72 | 35  | 40 | 27             | 16 |       |        | 4934 8         |
| OBS                     | 0700                | 09   | 56 | 35  | 27 | 27             | 26 |       |        | 4923 2         |
| OBS                     | 0750                | 08   | 98 | 35  | 21 | 27             | 31 |       |        | 4918 6         |
| STD                     | 0800                | 08   | 41 | 35  | 19 | 27             | 38 | 1 472 |        | 4914 2         |
| OBS                     | 0800                | 08   | 41 | 35  | 19 | 27             | 38 |       |        | 4914 2         |
| STD                     | 1000                | 05   | 04 | 35  | 03 | 27             | 72 | 1 609 |        | 4880 9         |
| OBS                     | 1000                | 05   | 04 | 35  | 03 | 27             | 72 |       |        | 4880 9         |
| STD                     | 1200                | 04   | 39 | 34  | 98 | 27             | 75 | 1 708 |        | 4882 8         |
| OBS                     | 1300                | 04   | 14 | 34  | 97 | 27             | 77 |       |        | 4884 9         |
| STD                     | 1500                | 03   | 80 | 34  | 98 | 27             | 81 | 1 845 |        | 4891 3         |
| OBS                     | 1800                | 03   | 66 | 34  | 99 | 27             | 83 |       |        | 4906 0         |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0042    | 05   | 25  | 1962 | 01   | 24       | 40 N | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 09   |                | 18           | 26              | 1     | 23            | 1       | 01    | 8    | 1    | 08   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |                    |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|--------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | σ <sub>z</sub> m/l | V <sub>t</sub> |
| STD                     | 0000                | 25   | 99 | 36  | 51 | 24             | 20 | 0 000 |                    | 5048 5         |
| OBS                     | 0000                | 25   | 99 | 36  | 51 | 24             | 20 |       |                    | 5048 5         |
| STD                     | 0010 †              | 25   | 65 | 36  | 51 | 24             | 30 | 0 037 |                    | 5046 5         |
| STD                     | 0020 †              | 25   | 34 | 36  | 50 | 24             | 39 | 0 073 |                    | 5044 7         |
| STD                     | 0030 †              | 25   | 07 | 36  | 50 | 24             | 47 | 0 108 |                    | 5043 2         |
| OBS                     | 0040                | 24   | 83 | 36  | 50 | 24             | 55 |       |                    | 5041 9         |
| STD                     | 0050                | 24   | 62 | 36  | 51 | 24             | 62 | 0 176 |                    | 5040 8         |
| STD                     | 0075                | 24   | 25 | 36  | 56 | 24             | 77 | 0 258 |                    | 5039 5         |
| OBS                     | 0075                | 24   | 25 | 36  | 56 | 24             | 77 |       |                    | 5039 5         |
| STD                     | 0100                | 24   | 13 | 36  | 67 | 24             | 89 | 0 338 |                    | 5040 3         |
| OBS                     | 0100                | 24   | 13 | 36  | 67 | 24             | 89 |       |                    | 5040 3         |
| STD                     | 0150                | 23   | 73 | 36  | 83 | 25             | 13 | 0 488 |                    | 5040 4         |
| OBS                     | 0150                | 23   | 73 | 36  | 83 | 25             | 13 |       |                    | 5040 4         |
| OBS                     | 0175                | 23   | 33 | 36  | 83 | 25             | 24 |       |                    | 5038 5         |
| STD                     | 0200                | 22   | 25 | 36  | 78 | 25             | 52 | 0 625 |                    | 5030 8         |
| OBS                     | 0200                | 22   | 25 | 36  | 78 | 25             | 52 |       |                    | 5030 8         |
| OBS                     | 0225                | 21   | 12 | 36  | 69 | 25             | 77 |       |                    | 5022 3         |
| STD                     | 0250                | 19   | 57 | 36  | 59 | 26             | 11 | 0 739 |                    | 5009 5         |
| OBS                     | 0250                | 19   | 57 | 36  | 59 | 26             | 11 |       |                    | 5009 5         |
| STD                     | 0300                | 18   | 39 | 36  | 47 | 26             | 32 | 0 834 |                    | 5000 9         |
| OBS                     | 0300                | 18   | 39 | 36  | 47 | 26             | 32 |       |                    | 5000 9         |
| STD                     | 0400                | 16   | 77 | 36  | 26 | 26             | 55 | 1 006 |                    | 4989 9         |
| STD                     | 0500                | 14   | 68 | 35  | 96 | 26             | 80 | 1 158 |                    | 4972 9         |
| OBS                     | 0500                | 14   | 68 | 35  | 96 | 26             | 80 |       |                    | 4972 9         |
| STD                     | 0600                | 12   | 11 | 35  | 58 | 27             | 04 | 1 288 |                    | 4948 8         |
| OBS                     | 0600                | 12   | 11 | 35  | 58 | 27             | 04 |       |                    | 4948 8         |
| OBS                     | 0650                | 10   | 91 | 35  | 44 | 27             | 15 |       |                    | 4937 2         |
| OBS                     | 0700                | 09   | 80 | 35  | 31 | 27             | 25 |       |                    | 4926 3         |
| OBS                     | 0750                | 09   | 10 | 35  | 22 | 27             | 29 |       |                    | 4920 1         |
| STD                     | 0800                | 08   | 54 | 35  | 18 | 27             | 35 | 1 495 |                    | 4915 8         |
| OBS                     | 0800                | 08   | 54 | 35  | 18 | 27             | 35 |       |                    | 4915 8         |
| STD                     | 1000                | 05   | 15 | 35  | 03 | 27             | 70 | 1 636 |                    | 4882 4         |
| OBS                     | 1000                | 05   | 15 | 35  | 03 | 27             | 70 |       |                    | 4882 4         |
| STD                     | 1200                | 04   | 42 | 35  | 01 | 27             | 77 | 1 734 |                    | 4883 4         |
| OBS                     | 1300                | 04   | 15 | 35  | 00 | 27             | 79 |       |                    | 4885 1         |
| STD                     | 1500                | 03   | 79 | 34  | 99 | 27             | 82 | 1 868 |                    | 4891 2         |
| OBS                     | 1800                | 03   | 70 | 34  | 99 | 27             | 83 |       |                    | 4906 5         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |    |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |    |
| 31947                | 0043    | 05   | 26  | 1962 | 04   | 24       | 40 N | 077       | 35 W                          | 1850                    | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 11   |                | 18           | 25 4            | 23 4  |               | 02      | 8     | 2    | 10   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |          |                     |          |                        |                     |  |  |
|-------------------------|---------------------|-----------|----------|---------------------|----------|------------------------|---------------------|--|--|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ | S%O<br>↓ | σ <sub>t</sub><br>↓ | ΣΔσ<br>↓ | Q <sub>ml/l</sub><br>↓ | V <sub>t</sub><br>↓ |  |  |
| STD                     | 0000                | 25 95     | 36 50    | 24 20               | 0 000    |                        | 5048 2              |  |  |
| OBS                     | 0000                | 25 95     | 36 50    | 24 20               |          |                        | 5048 2              |  |  |
| STD                     | 0010†               | 25 64     | 36 50    | 24 30               | 0 037    |                        | 5046 4              |  |  |
| STD                     | 0020†               | 25 36     | 36 49    | 24 38               | 0 073    |                        | 5044 8              |  |  |
| STD                     | 0030†               | 25 11     | 36 49    | 24 45               | 0 108    |                        | 5043 4              |  |  |
| OBS                     | 0040                | 24 88     | 36 49    | 24 52               |          |                        | 5042 2              |  |  |
| STD                     | 0050                | 24 67     | 36 50    | 24 60               | 0 177    |                        | 5041 2              |  |  |
| STD                     | 0075                | 24 28     | 36 56    | 24 76               | 0 259    |                        | 5039 7              |  |  |
| OBS                     | 0075                | 24 28     | 36 56    | 24 76               |          |                        | 5039 7              |  |  |
| STD                     | 0100                | 24 11     | 36 68    | 24 90               | 0 339    |                        | 5040 2              |  |  |
| OBS                     | 0100                | 24 11     | 36 68    | 24 90               |          |                        | 5040 2              |  |  |
| STD                     | 0150                | 23 70     | 36 82    | 25 13               | 0 489    |                        | 5040 1              |  |  |
| OBS                     | 0150                | 23 70     | 36 82    | 25 13               |          |                        | 5040 1              |  |  |
| OBS                     | 0175                | 23 22     | 36 84    | 25 28               |          |                        | 5037 7              |  |  |
| STD                     | 0200                | 22 21     | 36 77    | 25 52               | 0 625    |                        | 5030 5              |  |  |
| OBS                     | 0200                | 22 21     | 36 77    | 25 52               |          |                        | 5030 5              |  |  |
| OBS                     | 0225                | 20 44     | 36 62    | 25 90               |          |                        | 5016 1              |  |  |
| STD                     | 0250                | 19 27     | 36 56    | 26 16               | 0 738    |                        | 5006 7              |  |  |
| OBS                     | 0250                | 19 27     | 36 56    | 26 16               |          |                        | 5006 7              |  |  |
| STD                     | 0300                | 18 28     | 36 47    | 26 34               | 0 831    |                        | 4999 9              |  |  |
| OBS                     | 0300                | 18 28     | 36 47    | 26 34               |          |                        | 4999 9              |  |  |
| STD                     | 0400                | 17 36     | 36 20    | 26 37               | 1 011    |                        | 4995 4              |  |  |
| STD                     | 0500                | 14 45     | 35 90    | 26 80               | 1 171    |                        | 4970 2              |  |  |
| OBS                     | 0500                | 14 45     | 35 90    | 26 80               |          |                        | 4970 2              |  |  |
| STD                     | 0600                | 12 06     | 35 58    | 27 05               | 1 300    |                        | 4948 2              |  |  |
| OBS                     | 0600                | 12 06     | 35 58    | 27 05               |          |                        | 4948 2              |  |  |
| OBS                     | 0650                | 10 76     | 35 42    | 27 16               |          |                        | 4935 4              |  |  |
| OBS                     | 0700                | 10 02     | 35 33    | 27 23               |          |                        | 4929 0              |  |  |
| OBS                     | 0750                | 09 16     | 35 23    | 27 29               |          |                        | 4920 9              |  |  |
| STD                     | 0800                | 08 58     | 35 18    | 27 35               | 1 507    |                        | 4916 3              |  |  |
| OBS                     | 0800                | 08 58     | 35 18    | 27 35               |          |                        | 4916 3              |  |  |
| STD                     | 1000                | 05 39     | 35 04    | 27 68               | 1 651    |                        | 4885 6              |  |  |
| OBS                     | 1000                | 05 39     | 35 04    | 27 68               |          |                        | 4885 6              |  |  |
| STD                     | 1200                | 04 52     | 35 00    | 27 75               | 1 755    |                        | 4884 7              |  |  |
| OBS                     | 1300                | 04 20     | 34 99    | 27 78               |          |                        | 4885 8              |  |  |
| STD                     | 1500                | 03 78     | 34 97    | 27 81               | 1 893    |                        | 4890 9              |  |  |
| OBS                     | 1800                | 03 72     | 34 97    | 27 81               |          |                        | 4906 7              |  |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| HODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | NO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0044    | 05   | 26  | 1962 | 07   | 24       | 40 N | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 09   |                | 18           | 25              | 4     | 23            | 8       | 01    | 8    | 1    | 10   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |           |                     |           |                          |                     |   |        |
|-------------------------|---------------------|-----------|-----------|---------------------|-----------|--------------------------|---------------------|---|--------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ | S %O<br>↓ | σ <sub>t</sub><br>↓ | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |   |        |
| STD                     | 0000                | 26        | 02        | 36                  | 51        | 24                       | 19                  | 0 | 000    |
| OBS                     | 0000                | 26        | 02        | 36                  | 51        | 24                       | 19                  |   | 5048 8 |
| STD                     | 0010†               | 25        | 70        | 36                  | 50        | 24                       | 28                  | 0 | 037    |
| STD                     | 0020†               | 25        | 40        | 36                  | 50        | 24                       | 37                  | 0 | 073    |
| STD                     | 0030†               | 25        | 13        | 36                  | 49        | 24                       | 45                  | 0 | 109    |
| OBS                     | 0040                | 24        | 89        | 36                  | 49        | 24                       | 52                  |   | 5042 3 |
| STD                     | 0050                | 24        | 65        | 36                  | 50        | 24                       | 60                  | 0 | 177    |
| STD                     | 0075                | 24        | 25        | 36                  | 56        | 24                       | 77                  | 0 | 260    |
| OBS                     | 0075                | 24        | 25        | 36                  | 56        | 24                       | 77                  |   | 5039 5 |
| STD                     | 0100                | 24        | 16        | 36                  | 66        | 24                       | 87                  | 0 | 339    |
| OBS                     | 0100                | 24        | 16        | 36                  | 66        | 24                       | 87                  |   | 5040 5 |
| STD                     | 0150                | 23        | 73        | 36                  | 82        | 25                       | 12                  | 0 | 490    |
| OBS                     | 0150                | 23        | 73        | 36                  | 82        | 25                       | 12                  |   | 5040 4 |
| OBS                     | 0175                | 23        | 25        | 36                  | 84        | 25                       | 28                  |   | 5037 9 |
| STD                     | 0200                | 21        | 76        | 36                  | 73        | 25                       | 62                  | 0 | 624    |
| OBS                     | 0200                | 21        | 76        | 36                  | 73        | 25                       | 62                  |   | 5026 5 |
| OBS                     | 0225                | 20        | 30        | 36                  | 62        | 25                       | 93                  |   | 5026 5 |
| STD                     | 0250                | 19        | 20        | 36                  | 55        | 26                       | 17                  | 0 | 734    |
| OBS                     | 0250                | 19        | 20        | 36                  | 55        | 26                       | 17                  |   | 5006 0 |
| STD                     | 0300                | 18        | 09        | 36                  | 49        | 26                       | 41                  | 0 | 826    |
| OBS                     | 0300                | 18        | 09        | 36                  | 49        | 26                       | 41                  |   | 4998 2 |
| STD                     | 0400                | 16        | 61        | 36                  | 24        | 26                       | 58                  | 0 | 993    |
| STD                     | 0500                | 14        | 56        | 35                  | 93        | 26                       | 80                  | 1 | 143    |
| OBS                     | 0500                | 14        | 56        | 35                  | 93        | 26                       | 80                  |   | 4971 5 |
| STD                     | 0600                | 11        | 93        | 35                  | 55        | 27                       | 05                  | 1 | 272    |
| OBS                     | 0600                | 11        | 93        | 35                  | 55        | 27                       | 05                  |   | 4946 7 |
| OBS                     | 0650                | 10        | 79        | 35                  | 42        | 27                       | 16                  |   | 4946 7 |
| OBS                     | 0700                | 09        | 80        | 35                  | 31        | 27                       | 25                  |   | 4935 7 |
| OBS                     | 0750                | 09        | 00        | 35                  | 21        | 27                       | 30                  |   | 4926 3 |
| STD                     | 0800                | 08        | 64        | 35                  | 19        | 27                       | 34                  | 1 | 479    |
| OBS                     | 0800                | 08        | 64        | 35                  | 19        | 27                       | 34                  |   | 4918 9 |
| STD                     | 1000                | 05        | 35        | 35                  | 05        | 27                       | 69                  | 1 | 622    |
| OBS                     | 1000                | 05        | 35        | 35                  | 05        | 27                       | 69                  |   | 4917 1 |
| STD                     | 1200                | 04        | 59        | 35                  | 01        | 27                       | 75                  | 1 | 724    |
| OBS                     | 1300                | 04        | 30        | 35                  | 00        | 27                       | 78                  |   | 4885 2 |
| STD                     | 1500                | 03        | 89        | 34                  | 98        | 27                       | 80                  | 1 | 864    |
| OBS                     | 1800                | 03        | 72        | 34                  | 97        | 27                       | 81                  |   | 4887 2 |
|                         |                     |           |           |                     |           |                          |                     |   | 4892 5 |
|                         |                     |           |           |                     |           |                          |                     |   | 4906 7 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |
| 31947                | 0045    | 05   | 26  | 1962 | 10   | 24 40 N  | 077 35 W  | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 11   |                | 17           | 25 5            | 23 8  |               | 01      | 0     | 0    | 10   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |                     |                |   |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|---------------------|----------------|---|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | O <sub>2</sub> ml/l | V <sub>l</sub> |   |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  |       |                     |                |   |
| STD                     | 0000                | 25   | 92 | 36  | 53 | 24             | 23 | 0 000 |                     | 5048           | 1 |
| QBS                     | 0000                | 25   | 92 | 36  | 53 | 24             | 23 |       |                     | 5048           | 1 |
| STD                     | 0010 †              | 25   | 50 | 36  | 54 | 24             | 37 | 0 036 |                     | 5045           | 5 |
| STD                     | 0020 †              | 25   | 15 | 36  | 55 | 24             | 49 | 0 071 |                     | 5043           | 4 |
| STD                     | 0030 †              | 24   | 88 | 36  | 54 | 24             | 56 | 0 106 |                     | 5041           | 9 |
| OBS                     | 0040                | 24   | 67 | 36  | 56 | 24             | 64 |       |                     | 5040           | 8 |
| STD                     | 0050                | 24   | 62 | 36  | 63 | 24             | 71 | 0 172 |                     | 5041           | 3 |
| STD                     | 0075                | 24   | 51 | 36  | 70 | 24             | 79 | 0 253 |                     | 5042           | 0 |
| OBS                     | 0075                | 24   | 51 | 36  | 70 | 24             | 79 |       |                     | 5042           | 0 |
| STD                     | 0100                | 24   | 06 | 36  | 64 | 24             | 88 | 0 332 |                     | 5039           | 6 |
| OBS                     | 0100                | 24   | 06 | 36  | 64 | 24             | 88 |       |                     | 5039           | 6 |
| STD                     | 0150                | 23   | 81 | 36  | 85 | 25             | 12 | 0 483 |                     | 5041           | 1 |
| OBS                     | 0150                | 23   | 81 | 36  | 85 | 25             | 12 |       |                     | 5041           | 1 |
| OBS                     | 0175                | 22   | 90 | 36  | 76 | 25             | 32 |       |                     | 5034           | 8 |
| STD                     | 0200                | 21   | 88 | 36  | 73 | 25             | 58 | 0 618 |                     | 5027           | 6 |
| OBS                     | 0200                | 21   | 88 | 36  | 73 | 25             | 58 |       |                     | 5027           | 6 |
| OBS                     | 0225                | 20   | 25 | 36  | 64 | 25             | 96 |       |                     | 5014           | 5 |
| STD                     | 0250                | 19   | 20 | 36  | 55 | 26             | 17 | 0 729 |                     | 5006           | 0 |
| OBS                     | 0250                | 19   | 20 | 36  | 55 | 26             | 17 |       |                     | 5006           | 0 |
| STD                     | 0300                | 18   | 14 | 36  | 45 | 26             | 36 | 0 822 |                     | 4998           | 5 |
| OBS                     | 0300                | 18   | 14 | 36  | 45 | 26             | 36 |       |                     | 4998           | 5 |
| STD                     | 0400                | 16   | 63 | 36  | 07 | 26             | 44 | 0 997 |                     | 4987           | 8 |
| STD                     | 0500                | 14   | 45 | 35  | 76 | 26             | 70 | 1 158 |                     | 4969           | 6 |
| OBS                     | 0500                | 14   | 45 | 35  | 90 | 26             | 80 |       |                     | 4970           | 2 |
| STD                     | 0600                | 11   | 60 | 35  | 51 | 27             | 08 | 1 290 |                     | 4942           | 7 |
| OBS                     | 0600                | 11   | 60 | 35  | 51 | 27             | 08 |       |                     | 4942           | 7 |
| OBS                     | 0650                | 10   | 76 | 35  | 41 | 27             | 16 |       |                     | 4935           | 3 |
| OBS                     | 0700                | 09   | 82 | 35  | 31 | 27             | 24 |       |                     | 4926           | 5 |
| OBS                     | 0750                | 09   | 00 | 35  | 21 | 27             | 30 |       |                     | 4918           | 9 |
| STD                     | 0800                | 08   | 51 | 35  | 18 | 27             | 36 | 1 493 |                     | 4915           | 4 |
| OBS                     | 0800                | 08   | 51 | 35  | 18 | 27             | 36 |       |                     | 4915           | 4 |
| STD                     | 1000                | 05   | 13 | 35  | 03 | 27             | 71 | 1 633 |                     | 4882           | 1 |
| OBS                     | 1000                | 05   | 13 | 35  | 03 | 27             | 71 |       |                     | 4882           | 1 |
| STD                     | 1200                | 04   | 47 | 35  | 00 | 27             | 76 | 1 733 |                     | 4884           | 0 |
| OBS                     | 1300                | 04   | 21 | 34  | 99 | 27             | 78 |       |                     | 4885           | 9 |
| STD                     | 1500                | 03   | 86 | 34  | 98 | 27             | 81 | 1 870 |                     | 4892           | 1 |
| OBS                     | 1800                | 03   | 71 | 34  | 97 | 27             | 81 |       |                     | 4906           | 6 |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |       |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |       |           |       | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |       |                               |                         |
| 31947                | 0046    | 05   | 26  | 1962 | 13   | 24       | 40' N | 077       | 35' W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 09   |                | 18           | 26 8            | 24 3  |               | 01      | 8     | 2    | 10   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |        |           |    |           |    |                     |    |           |     |                          |                     |
|-------------------------|--------|-----------|----|-----------|----|---------------------|----|-----------|-----|--------------------------|---------------------|
| SAMPLE<br>DEPTH (M)     |        | T °C<br>↓ |    | S‰ O<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000   | 25        | 87 | 36        | 53 | 24                  | 25 | 0         | 000 |                          | 5047 7              |
| OBS                     | 0000   | 25        | 87 | 36        | 53 | 24                  | 25 |           |     |                          | 5047 7              |
| STD                     | 0010 † | 25        | 44 | 36        | 53 | 24                  | 38 | 0         | 036 |                          | 5045 0              |
| STD                     | 0020 † | 25        | 08 | 36        | 53 | 24                  | 49 | 0         | 071 |                          | 5042 8              |
| STD                     | 0030 † | 24        | 80 | 36        | 53 | 24                  | 58 | 0         | 105 |                          | 5041 2              |
| OBS                     | 0040   | 24        | 60 | 36        | 53 | 24                  | 64 |           |     |                          | 5040 2              |
| STD                     | 0050   | 24        | 58 | 36        | 59 | 24                  | 69 | 0         | 172 |                          | 5040 8              |
| STD                     | 0075   | 24        | 48 | 36        | 71 | 24                  | 81 | 0         | 253 |                          | 5041 8              |
| OBS                     | 0075   | 24        | 48 | 36        | 71 | 24                  | 81 |           |     |                          | 5041 8              |
| STD                     | 0100   | 24        | 32 | 36        | 78 | 24                  | 91 | 0         | 331 |                          | 5042 2              |
| OBS                     | 0100   | 24        | 32 | 36        | 78 | 24                  | 91 |           |     |                          | 5042 2              |
| STD                     | 0150   | 23        | 75 | 36        | 84 | 25                  | 13 | 0         | 481 |                          | 5040 6              |
| OBS                     | 0150   | 23        | 75 | 36        | 84 | 25                  | 13 |           |     |                          | 5040 6              |
| OBS                     | 0175   | 23        | 10 | 36        | 80 | 25                  | 29 |           |     |                          | 5036 6              |
| STD                     | 0200   | 22        | 33 | 36        | 79 | 25                  | 50 | 0         | 618 |                          | 5031 6              |
| OBS                     | 0200   | 22        | 33 | 36        | 79 | 25                  | 50 |           |     |                          | 5031 6              |
| OBS                     | 0225   | 20        | 70 | 36        | 64 | 25                  | 84 |           |     |                          | 5018 4              |
| STD                     | 0250   | 19        | 34 | 36        | 55 | 26                  | 13 | 0         | 732 |                          | 5007 3              |
| OBS                     | 0250   | 19        | 34 | 36        | 55 | 26                  | 13 |           |     |                          | 5007 3              |
| STD                     | 0300   | 18        | 09 | 36        | 45 | 26                  | 38 | 0         | 825 |                          | 4998 0              |
| OBS                     | 0300   | 18        | 09 | 36        | 45 | 26                  | 38 |           |     |                          | 4998 0              |
| STD                     | 0400   | 16        | 61 | 36        | 22 | 26                  | 56 | 0         | 994 |                          | 4988 2              |
| STD                     | 0500   | 14        | 42 | 35        | 91 | 26                  | 82 | 1         | 144 |                          | 4969 9              |
| OBS                     | 0500   | 14        | 42 | 35        | 91 | 26                  | 82 |           |     |                          | 4969 9              |
| STD                     | 0600   | 11        | 51 | 35        | 51 | 27                  | 10 | 1         | 269 |                          | 4941 7              |
| OBS                     | 0600   | 11        | 51 | 35        | 51 | 27                  | 10 |           |     |                          | 4941 7              |
| OBS                     | 0650   | 10        | 89 | 35        | 43 | 27                  | 15 |           |     |                          | 4936 9              |
| OBS                     | 0700   | 09        | 91 | 35        | 32 | 27                  | 24 |           |     |                          | 4927 6              |
| OBS                     | 0750   | 09        | 01 | 35        | 21 | 27                  | 30 |           |     |                          | 4919 0              |
| STD                     | 0800   | 08        | 52 | 35        | 19 | 27                  | 36 | 1         | 469 |                          | 4915 6              |
| OBS                     | 0800   | 08        | 52 | 35        | 19 | 27                  | 36 |           |     |                          | 4915 6              |
| STD                     | 1000   | 05        | 15 | 35        | 02 | 27                  | 69 | 1         | 610 |                          | 4882 3              |
| OBS                     | 1000   | 05        | 15 | 35        | 02 | 27                  | 69 |           |     |                          | 4882 3              |
| STD                     | 1200   | 04        | 47 | 35        | 00 | 27                  | 76 | 1         | 711 |                          | 4884 0              |
| OBS                     | 1300   | 04        | 21 | 34        | 99 | 27                  | 78 |           |     |                          | 4885 9              |
| STD                     | 1500   | 03        | 85 | 34        | 98 | 27                  | 81 | 1         | 848 |                          | 4891 9              |
| OBS                     | 1800   | 03        | 71 | 34        | 98 | 27                  | 82 |           |     |                          | 4906 6              |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0047    | 05   | 26  | 1962 | 16   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 18           | 28 6            | 24 4  |               | 02      | 8     | 2    | 09   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |                     |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|---------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | Q <sub>σm</sub> / h | V <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  |       |                     |                |
| STD                     | 0000                | 26   | 18 | 36  | 52 | 24             | 14 | 0 000 |                     | 5050 0         |
| OBS                     | 0000                | 26   | 18 | 36  | 52 | 24             | 14 |       |                     | 5050 0         |
| STD                     | 0010 †              | 25   | 72 | 36  | 53 | 24             | 30 | 0 037 |                     | 5047 1         |
| STD                     | 0020 †              | 25   | 32 | 36  | 53 | 24             | 42 | 0 073 |                     | 5044 6         |
| STD                     | 0030 †              | 25   | 00 | 36  | 54 | 24             | 53 | 0 108 |                     | 5042 8         |
| OBS                     | 0040                | 24   | 75 | 36  | 54 | 24             | 60 |       |                     | 5041 4         |
| STD                     | 0050                | 24   | 62 | 36  | 60 | 24             | 69 | 0 175 |                     | 5041 1         |
| STD                     | 0075                | 24   | 43 | 36  | 74 | 24             | 85 | 0 255 |                     | 5041 5         |
| OBS                     | 0075                | 24   | 43 | 36  | 74 | 24             | 85 |       |                     | 5041 5         |
| STD                     | 0100                | 24   | 41 | 36  | 85 | 24             | 94 | 0 333 |                     | 5043 1         |
| OBS                     | 0100                | 24   | 41 | 36  | 85 | 24             | 94 |       |                     | 5043 1         |
| STD                     | 0150                | 23   | 87 | 36  | 87 | 25             | 12 | 0 482 |                     | 5041 7         |
| OBS                     | 0150                | 23   | 87 | 36  | 87 | 25             | 12 |       |                     | 5041 7         |
| OBS                     | 0175                | 23   | 25 | 36  | 86 | 25             | 29 |       |                     | 5038 0         |
| STD                     | 0200                | 22   | 03 | 36  | 77 | 25             | 57 | 0 618 |                     | 5029 0         |
| OBS                     | 0200                | 22   | 03 | 36  | 77 | 25             | 57 |       |                     | 5029 0         |
| OBS                     | 0225                | 20   | 38 | 36  | 63 | 25             | 92 |       |                     | 5015 6         |
| STD                     | 0250                | 19   | 15 | 36  | 55 | 26             | 18 | 0 729 |                     | 5005 6         |
| OBS                     | 0250                | 19   | 15 | 36  | 55 | 26             | 18 |       |                     | 5005 6         |
| STD                     | 0300                | 17   | 99 | 36  | 44 | 26             | 39 | 0 821 |                     | 4997 0         |
| OBS                     | 0300                | 17   | 99 | 36  | 44 | 26             | 39 |       |                     | 4997 0         |
| STD                     | 0400                | 16   | 55 | 36  | 22 | 26             | 57 | 0 988 |                     | 4987 6         |
| STD                     | 0500                | 14   | 37 | 35  | 91 | 26             | 83 | 1 137 |                     | 4969 4         |
| OBS                     | 0500                | 14   | 37 | 35  | 91 | 26             | 83 |       |                     | 4969 4         |
| STD                     | 0600                | 11   | 44 | 35  | 50 | 27             | 10 | 1 262 |                     | 4940 9         |
| OBS                     | 0600                | 11   | 44 | 35  | 50 | 27             | 10 |       |                     | 4940 9         |
| OBS                     | 0650                | 10   | 88 | 35  | 43 | 27             | 15 |       |                     | 4936 8         |
| OBS                     | 0700                | 09   | 92 | 35  | 33 | 27             | 24 |       |                     | 4927 8         |
| OBS                     | 0750                | 09   | 00 | 35  | 21 | 27             | 30 |       |                     | 4918 9         |
| STD                     | 0800                | 08   | 66 | 35  | 19 | 27             | 34 | 1 463 |                     | 4917 3         |
| OBS                     | 0800                | 08   | 66 | 35  | 19 | 27             | 34 |       |                     | 4917 3         |
| STD                     | 1000                | 05   | 28 | 35  | 08 | 27             | 73 | 1 603 |                     | 4884 3         |
| OBS                     | 1000                | 05   | 28 | 35  | 08 | 27             | 73 |       |                     | 4884 3         |
| STD                     | 1200                | 04   | 55 | 35  | 02 | 27             | 76 | 1 701 |                     | 4885 2         |
| OBS                     | 1300                | 04   | 27 | 35  | 00 | 27             | 78 |       |                     | 4886 8         |
| STD                     | 1500                | 03   | 88 | 35  | 00 | 27             | 82 | 1 836 |                     | 4892 4         |
| OBS                     | 1800                | 03   | 73 | 34  | 99 | 27             | 83 |       |                     | 4906 9         |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0048    | 05   | 26  | 1962 | 19   | 24 40' N | 077 35' W | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 07   |                | 16           | 26.8            | 23.8  |               | 02      | 8     | 2    | 09   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |       |           |    |          |    |                     |    |           |                          |                     |
|-------------------------|-------|-----------|----|----------|----|---------------------|----|-----------|--------------------------|---------------------|
| SAMPLE<br>DEPTH (M)     |       | T °C<br>↓ |    | S ‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ Δσ<br>↓ | Q <sub>2m</sub> t/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000  | 26        | 74 | 36       | 54 | 23                  | 98 | 0 000     |                          | 5054 2              |
| OBS                     | 0000  | 26        | 74 | 36       | 54 | 23                  | 98 |           |                          | 5054 2              |
| STD                     | 0010† | 26        | 04 | 36       | 53 | 24                  | 20 | 0 038     |                          | 5049 5              |
| STD                     | 0020† | 25        | 47 | 36       | 53 | 24                  | 37 | 0 075     |                          | 5045 8              |
| STD                     | 0030† | 25        | 02 | 36       | 52 | 24                  | 50 | 0 110     |                          | 5042 9              |
| OBS                     | 0040  | 24        | 70 | 36       | 52 | 24                  | 60 |           |                          | 5040 9              |
| STD                     | 0050  | 24        | 70 | 36       | 63 | 24                  | 68 | 0 177     |                          | 5041 9              |
| STD                     | 0075  | 24        | 54 | 36       | 78 | 24                  | 85 | 0 258     |                          | 5042 5              |
| OBS                     | 0075  | 24        | 54 | 36       | 78 | 24                  | 85 |           |                          | 5042 5              |
| STD                     | 0100  | 24        | 18 | 36       | 77 | 24                  | 95 | 0 335     |                          | 5041 0              |
| OBS                     | 0100  | 24        | 18 | 36       | 77 | 24                  | 95 |           |                          | 5041 0              |
| STD                     | 0150  | 23        | 82 | 36       | 90 | 25                  | 15 | 0 484     |                          | 5041 4              |
| OBS                     | 0150  | 23        | 82 | 36       | 90 | 25                  | 15 |           |                          | 5041 4              |
| OBS                     | 0175  | 22        | 99 | 36       | 80 | 25                  | 32 |           |                          | 5035 7              |
| STD                     | 0200  | 21        | 85 | 36       | 75 | 25                  | 61 | 0 618     |                          | 5027 4              |
| OBS                     | 0200  | 21        | 85 | 36       | 75 | 25                  | 61 |           |                          | 5027 4              |
| OBS                     | 0225  | 19        | 91 | 36       | 60 | 26                  | 02 |           |                          | 5011 3              |
| STD                     | 0250  | 18        | 84 | 36       | 52 | 26                  | 24 | 0 726     |                          | 5002 6              |
| OBS                     | 0250  | 18        | 84 | 36       | 52 | 26                  | 24 |           |                          | 5002 6              |
| STD                     | 0300  | 17        | 90 | 36       | 43 | 26                  | 41 | 0 816     |                          | 4996 1              |
| OBS                     | 0300  | 17        | 90 | 36       | 43 | 26                  | 41 |           |                          | 4996 1              |
| STD                     | 0400  | 16        | 34 | 36       | 18 | 26                  | 59 | 0 982     |                          | 4985 3              |
| STD                     | 0500  | 14        | 21 | 35       | 87 | 26                  | 83 | 1 130     |                          | 4967 6              |
| OBS                     | 0500  | 14        | 21 | 35       | 87 | 26                  | 83 |           |                          | 4967 6              |
| STD                     | 0600  | 11        | 50 | 35       | 50 | 27                  | 09 | 1 255     |                          | 4941 6              |
| OBS                     | 0600  | 11        | 50 | 35       | 50 | 27                  | 09 |           |                          | 4941 6              |
| OBS                     | 0650  | 10        | 88 | 35       | 43 | 27                  | 15 |           |                          | 4936 8              |
| OBS                     | 0700  | 09        | 66 | 35       | 29 | 27                  | 26 |           |                          | 4924 5              |
| OBS                     | 0750  | 08        | 95 | 35       | 21 | 27                  | 31 |           |                          | 4918 3              |
| STD                     | 0800  | 08        | 52 | 35       | 19 | 27                  | 36 | 1 455     |                          | 4915 6              |
| OBS                     | 0800  | 08        | 52 | 35       | 19 | 27                  | 36 |           |                          | 4915 6              |
| STD                     | 1000  | 05        | 15 | 35       | 02 | 27                  | 69 | 1 596     |                          | 4882 3              |
| OBS                     | 1000  | 05        | 15 | 35       | 02 | 27                  | 69 |           |                          | 4882 3              |
| STD                     | 1200  | 04        | 47 | 35       | 00 | 27                  | 76 | 1 697     |                          | 4884 0              |
| OBS                     | 1300  | 04        | 21 | 34       | 99 | 27                  | 78 |           |                          | 4885 9              |
| STD                     | 1500  | 03        | 86 | 34       | 98 | 27                  | 81 | 1 834     |                          | 4892 1              |
| OBS                     | 1800  | 03        | 75 | 34       | 97 | 27                  | 81 |           |                          | 4907 1              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |                               |                         |    |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------------------------------|-------------------------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |       |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |                               |                         |    |
| 31947                | 0049    | 05   | 26  | 1962 | 22   | 24       | 40' N | 077       | 35' W                         | 1850                    | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 09   |                | 16           | 27 5            | 23 6  |               |         | 01    | 8 2  | 07   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |          |                     |           |                           |                     |  |  |
|-------------------------|---------------------|-----------|----------|---------------------|-----------|---------------------------|---------------------|--|--|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ | S%O<br>↓ | σ <sub>t</sub><br>↓ | Σ ΔD<br>↓ | Q <sub>2</sub> m l/l<br>↓ | V <sub>t</sub><br>↓ |  |  |
| STD                     | 0000                | 26 63     | 36 54    | 24 02               | 0 000     |                           | 5053 4              |  |  |
| OBS                     | 0000                | 26 63     | 36 54    | 24 02               |           |                           | 5053 4              |  |  |
| STD                     | 0010 †              | 26 04     | 36 55    | 24 21               | 0 038     |                           | 5049 6              |  |  |
| STD                     | 0020 †              | 25 55     | 36 56    | 24 37               | 0 075     |                           | 5046 5              |  |  |
| STD                     | 0030 †              | 25 16     | 36 56    | 24 49               | 0 110     |                           | 5044 1              |  |  |
| OBS                     | 0040                | 24 88     | 36 57    | 24 58               |           |                           | 5042 5              |  |  |
| STD                     | 0050                | 24 83     | 36 67    | 24 68               | 0 177     |                           | 5043 0              |  |  |
| STD                     | 0075                | 24 70     | 36 81    | 24 82               | 0 258     |                           | 5043 9              |  |  |
| OBS                     | 0075                | 24 70     | 36 81    | 24 82               |           |                           | 5043 9              |  |  |
| STD                     | 0100                | 24 22     | 36 79    | 24 95               | 0 336     |                           | 5041 4              |  |  |
| OBS                     | 0100                | 24 22     | 36 79    | 24 95               |           |                           | 5041 4              |  |  |
| STD                     | 0150                | 23 70     | 36 88    | 25 17               | 0 484     |                           | 5040 3              |  |  |
| OBS                     | 0150                | 23 70     | 36 88    | 25 17               |           |                           | 5040 3              |  |  |
| OBS                     | 0175                | 23 06     | 36 83    | 25 32               |           |                           | 5036 4              |  |  |
| STD                     | 0200                | 21 86     | 36 76    | 25 61               | 0 617     |                           | 5027 5              |  |  |
| OBS                     | 0200                | 21 86     | 36 76    | 25 61               |           |                           | 5027 5              |  |  |
| OBS                     | 0225                | 20 03     | 36 61    | 26 00               |           |                           | 5012 4              |  |  |
| STD                     | 0250                | 19 40     | 36 53    | 26 10               | 0 729     |                           | 5007 8              |  |  |
| OBS                     | 0250                | 19 40     | 36 53    | 26 10               |           |                           | 5007 8              |  |  |
| STD                     | 0300                | 18 02     | 36 44    | 26 39               | 0 823     |                           | 4997 3              |  |  |
| OBS                     | 0300                | 18 02     | 36 44    | 26 39               |           |                           | 4997 3              |  |  |
| STD                     | 0400                | 16 65     | 36 22    | 26 55               | 0 992     |                           | 4988 6              |  |  |
| STD                     | 0500                | 14 42     | 35 90    | 26 81               | 1 142     |                           | 4969 9              |  |  |
| OBS                     | 0500                | 14 42     | 35 90    | 26 81               |           |                           | 4969 9              |  |  |
| STD                     | 0600                | 11 34     | 35 49    | 27 11               | 1 268     |                           | 4939 7              |  |  |
| OBS                     | 0600                | 11 34     | 35 49    | 27 11               |           |                           | 4939 7              |  |  |
| OBS                     | 0650                | 10 76     | 35 43    | 27 17               |           |                           | 4935 4              |  |  |
| OBS                     | 0700                | 09 69     | 35 29    | 27 25               |           |                           | 4924 9              |  |  |
| OBS                     | 0750                | 08 85     | 35 21    | 27 33               |           |                           | 4917 0              |  |  |
| STD                     | 0800                | 08 26     | 35 18    | 27 40               | 1 462     |                           | 4912 3              |  |  |
| OBS                     | 0800                | 08 26     | 35 18    | 27 40               |           |                           | 4912 3              |  |  |
| STD                     | 1000                | 05 08     | 35 02    | 27 70               | 1 599     |                           | 4881 4              |  |  |
| OBS                     | 1000                | 05 08     | 35 02    | 27 70               |           |                           | 4881 4              |  |  |
| STD                     | 1200                | 04 43     | 35 00    | 27 76               | 1 698     |                           | 4883 5              |  |  |
| OBS                     | 1300                | 04 18     | 34 99    | 27 78               |           |                           | 4885 5              |  |  |
| STD                     | 1500                | 03 84     | 34 98    | 27 81               | 1 834     |                           | 4891 8              |  |  |
| OBS                     | 1800                | 03 72     | 34 97    | 27 81               |           |                           | 4906 7              |  |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |       |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |       |           |       | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |       |                               |                         |
| 31947                | 0050    | 05   | 27  | 1962 | 01   | 24       | 40' N | 077       | 35' W | 1850                          | 18                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 05   |                | 16           | 26.4            | 23.9  |               | 01      | 8     | 2    | 07   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |         |    |                     |    |           |                          |                     |
|-------------------------|---------------------|-----------|----|---------|----|---------------------|----|-----------|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 26        | 08 | 36      | 53 | 24                  | 18 | 0 000     |                          | 5049 3              |
| OBS                     | 0000                | 26        | 08 | 36      | 53 | 24                  | 18 |           |                          | 5049 3              |
| STD                     | 0010 †              | 25        | 67 | 36      | 56 | 24                  | 33 | 0 037     |                          | 5046 9              |
| STD                     | 0020 †              | 25        | 31 | 36      | 59 | 24                  | 47 | 0 072     |                          | 5044 8              |
| STD                     | 0030 †              | 25        | 02 | 36      | 62 | 24                  | 58 | 0 106     |                          | 5043 2              |
| OBS                     | 0040                | 24        | 79 | 36      | 65 | 24                  | 67 |           |                          | 5042 1              |
| STD                     | 0050                | 24        | 71 | 36      | 68 | 24                  | 72 | 0 173     |                          | 5042 1              |
| STD                     | 0075                | 24        | 47 | 36      | 75 | 24                  | 84 | 0 253     |                          | 5041 9              |
| OBS                     | 0075                | 24        | 47 | 36      | 75 | 24                  | 84 |           |                          | 5041 9              |
| STD                     | 0100                | 24        | 20 | 36      | 81 | 24                  | 97 | 0 330     |                          | 5041 3              |
| OBS                     | 0100                | 24        | 20 | 36      | 81 | 24                  | 97 |           |                          | 5041 3              |
| STD                     | 0150                | 23        | 91 | 36      | 91 | 25                  | 13 | 0 478     |                          | 5042 1              |
| OBS                     | 0150                | 23        | 91 | 36      | 91 | 25                  | 13 |           |                          | 5042 1              |
| OBS                     | 0175                | 23        | 21 | 36      | 83 | 25                  | 28 |           |                          | 5037 6              |
| STD                     | 0200                | 22        | 11 | 36      | 77 | 25                  | 55 | 0 614     |                          | 5029 6              |
| OBS                     | 0200                | 22        | 11 | 36      | 77 | 25                  | 55 |           |                          | 5029 6              |
| OBS                     | 0225                | 20        | 40 | 36      | 63 | 25                  | 92 |           |                          | 5015 8              |
| STD                     | 0250                | 19        | 29 | 36      | 57 | 26                  | 16 | 0 726     |                          | 5006 9              |
| OBS                     | 0250                | 19        | 29 | 36      | 57 | 26                  | 16 |           |                          | 5006 9              |
| STD                     | 0300                | 18        | 06 | 36      | 46 | 26                  | 39 | 0 818     |                          | 4997 8              |
| OBS                     | 0300                | 18        | 06 | 36      | 46 | 26                  | 39 |           |                          | 4997 8              |
| STD                     | 0400                | 16        | 54 | 36      | 22 | 26                  | 58 | 0 986     |                          | 4987 5              |
| STD                     | 0500                | 14        | 42 | 35      | 91 | 26                  | 82 | 1 135     |                          | 4969 9              |
| OBS                     | 0500                | 14        | 42 | 35      | 91 | 26                  | 82 |           |                          | 4969 9              |
| STD                     | 0600                | 11        | 69 | 35      | 54 | 27                  | 09 | 1 261     |                          | 4943 9              |
| OBS                     | 0600                | 11        | 69 | 35      | 54 | 27                  | 09 |           |                          | 4943 9              |
| OBS                     | 0650                | 10        | 76 | 35      | 42 | 27                  | 16 |           |                          | 4935 4              |
| OBS                     | 0700                | 09        | 80 | 35      | 31 | 27                  | 25 |           |                          | 4926 3              |
| OBS                     | 0750                | 09        | 10 | 35      | 24 | 27                  | 31 |           |                          | 4920 2              |
| STD                     | 0800                | 08        | 53 | 35      | 20 | 27                  | 37 | 1 462     |                          | 4915 8              |
| OBS                     | 0800                | 08        | 53 | 35      | 20 | 27                  | 37 |           |                          | 4915 8              |
| STD                     | 1000                | 05        | 15 | 35      | 03 | 27                  | 70 | 1 601     |                          | 4882 4              |
| OBS                     | 1000                | 05        | 15 | 35      | 03 | 27                  | 70 |           |                          | 4882 4              |
| STD                     | 1200                | 04        | 45 | 35      | 00 | 27                  | 76 | 1 701     |                          | 4883 7              |
| OBS                     | 1300                | 04        | 19 | 34      | 99 | 27                  | 78 |           |                          | 4885 6              |
| STD                     | 1500                | 03        | 83 | 34      | 98 | 27                  | 81 | 1 838     |                          | 4891 7              |
| OBS                     | 1800                | 03        | 72 | 34      | 97 | 27                  | 81 |           |                          | 4906 7              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |                               |                         |    |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------------------------------|-------------------------|----|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |       |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |    |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |                               |                         |    |
| 31947                | 0051    | 05   | 27  | 1962 | 04   | 24       | 40' N | 077       | 35' W                         | 1850                    | 18 |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY °           | WET ° |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 16           | 25              | 7     | 23            | 1       | 01    | 8    | 1    | 08   | 2     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |          |                     |           |                        |                     |  |  |
|-------------------------|---------------------|-----------|----------|---------------------|-----------|------------------------|---------------------|--|--|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ | S ‰<br>↓ | σ <sub>t</sub><br>↓ | Σ ΔD<br>↓ | Q <sub>2m/1</sub><br>↓ | V <sub>t</sub><br>↓ |  |  |
| STD                     | 0000                | 25 96     | 36 56    | 24 24               | 0 000     |                        | 5048 5              |  |  |
| OBS                     | 0000                | 25 96     | 36 56    | 24 24               |           |                        | 5048 5              |  |  |
| STD                     | 0010 †              | 25 51     | 36 56    | 24 38               | 0 036     |                        | 5045 7              |  |  |
| STD                     | 0020 †              | 25 15     | 36 55    | 24 49               | 0 071     |                        | 5043 4              |  |  |
| STD                     | 0030 †              | 24 86     | 36 55    | 24 58               | 0 106     |                        | 5041 7              |  |  |
| OBS                     | 0040                | 24 65     | 36 55    | 24 64               |           |                        | 5040 7              |  |  |
| STD                     | 0050                | 24 62     | 36 65    | 24 72               | 0 172     |                        | 5041 3              |  |  |
| STD                     | 0075                | 24 54     | 36 79    | 24 85               | 0 252     |                        | 5042 6              |  |  |
| OBS                     | 0075                | 24 54     | 36 79    | 24 85               |           |                        | 5042 6              |  |  |
| STD                     | 0100                | 24 07     | 36 77    | 24 98               | 0 329     |                        | 5040 2              |  |  |
| OBS                     | 0100                | 24 07     | 36 77    | 24 98               |           |                        | 5040 2              |  |  |
| STD                     | 0150                | 23 88     | 36 91    | 25 14               | 0 477     |                        | 5041 9              |  |  |
| OBS                     | 0150                | 23 88     | 36 91    | 25 14               |           |                        | 5041 9              |  |  |
| OBS                     | 0175                | 23 13     | 36 81    | 25 29               |           |                        | 5036 8              |  |  |
| STD                     | 0200                | 21 97     | 36 76    | 25 58               | 0 611     |                        | 5028 4              |  |  |
| OBS                     | 0200                | 21 97     | 36 76    | 25 58               |           |                        | 5028 4              |  |  |
| OBS                     | 0225                | 20 29     | 36 61    | 25 93               |           |                        | 5014 7              |  |  |
| STD                     | 0250                | 19 14     | 36 55    | 26 19               | 0 722     |                        | 5005 5              |  |  |
| OBS                     | 0250                | 19 14     | 36 55    | 26 19               |           |                        | 5005 5              |  |  |
| STD                     | 0300                | 17 95     | 35 45    | 26 41               | 0 813     |                        | 4996 7              |  |  |
| OBS                     | 0300                | 17 95     | 36 45    | 26 41               |           |                        | 4996 7              |  |  |
| STD                     | 0400                | 16 32     | 36 23    | 26 64               | 0 977     |                        | 4985 3              |  |  |
| STD                     | 0500                | 14 18     | 35 92    | 26 88               | 1 120     |                        | 4967 4              |  |  |
| OBS                     | 0500                | 14 18     | 35 92    | 26 88               |           |                        | 4967 4              |  |  |
| STD                     | 0600                | 11 54     | 35 51    | 27 09               | 1 243     |                        | 4942 1              |  |  |
| OBS                     | 0600                | 11 54     | 35 51    | 27 09               |           |                        | 4942 1              |  |  |
| OBS                     | 0650                | 10 82     | 35 43    | 27 16               |           |                        | 4936 1              |  |  |
| OBS                     | 0700                | 09 89     | 35 31    | 27 23               |           |                        | 4927 4              |  |  |
| OBS                     | 0750                | 09 07     | 35 24    | 27 31               |           |                        | 4919 9              |  |  |
| STD                     | 0800                | 08 49     | 35 18    | 27 36               | 1 444     |                        | 4915 2              |  |  |
| OBS                     | 0800                | 08 49     | 35 18    | 27 36               |           |                        | 4915 2              |  |  |
| STD                     | 1000                | 05 17     | 35 02    | 27 69               | 1 585     |                        | 4882 6              |  |  |
| OBS                     | 1000                | 05 17     | 35 02    | 27 69               |           |                        | 4882 6              |  |  |
| STD                     | 1200                | 04 42     | 35 00    | 27 76               | 1 686     |                        | 4883 3              |  |  |
| OBS                     | 1300                | 04 14     | 34 99    | 27 78               |           |                        | 4885 0              |  |  |
| STD                     | 1500                | 03 78     | 34 98    | 27 81               | 1 821     |                        | 4891 0              |  |  |
| OBS                     | 1800                | 03 71     | 34 97    | 27 81               |           |                        | 4906 6              |  |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0052    | 05   | 27  | 1962 | 07   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY °           | WET ° |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 10   |                | 15           | 25 6            | 23 1  |               | 02      | 8     | 1    | 08   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |        |           |    |           |    |                     |    |           |     |                          |                     |
|-------------------------|--------|-----------|----|-----------|----|---------------------|----|-----------|-----|--------------------------|---------------------|
| SAMPLE<br>DEPTH (M)     |        | T °C<br>↓ |    | S‰ O<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000   | 26        | 11 | 36        | 56 | 24                  | 20 | 0         | 000 |                          | 5049 6              |
| OBS                     | 0000   | 26        | 11 | 36        | 56 | 24                  | 20 |           |     |                          | 5049 6              |
| STD                     | 0010 † | 25        | 81 | 36        | 60 | 24                  | 32 | 0         | 037 |                          | 5048 1              |
| STD                     | 0020 † | 25        | 52 | 36        | 63 | 24                  | 43 | 0         | 072 |                          | 5046 5              |
| STD                     | 0030 † | 25        | 26 | 36        | 66 | 24                  | 54 | 0         | 107 |                          | 5045 2              |
| OBS                     | 0040   | 25        | 02 | 36        | 68 | 24                  | 62 |           |     |                          | 5044 0              |
| STD                     | 0050   | 24        | 77 | 36        | 69 | 24                  | 71 | 0         | 174 |                          | 5042 6              |
| STD                     | 0075   | 24        | 35 | 36        | 72 | 24                  | 86 | 0         | 254 |                          | 5040 8              |
| OBS                     | 0075   | 24        | 35 | 36        | 72 | 24                  | 86 |           |     |                          | 5040 8              |
| STD                     | 0100   | 24        | 25 | 36        | 86 | 24                  | 99 | 0         | 331 |                          | 5041 9              |
| OBS                     | 0100   | 24        | 25 | 36        | 86 | 24                  | 99 |           |     |                          | 5041 9              |
| STD                     | 0150   | 23        | 90 | 36        | 90 | 25                  | 13 | 0         | 479 |                          | 5042 0              |
| OBS                     | 0150   | 23        | 90 | 36        | 90 | 25                  | 13 |           |     |                          | 5042 0              |
| OBS                     | 0175   | 22        | 99 | 36        | 80 | 25                  | 32 |           |     |                          | 5035 7              |
| STD                     | 0200   | 22        | 13 | 36        | 75 | 25                  | 53 | 0         | 615 |                          | 5029 7              |
| OBS                     | 0200   | 22        | 13 | 36        | 75 | 25                  | 53 |           |     |                          | 5029 7              |
| OBS                     | 0225   | 19        | 79 | 36        | 59 | 26                  | 05 |           |     |                          | 5010 2              |
| STD                     | 0250   | 18        | 92 | 36        | 53 | 26                  | 23 | 0         | 726 |                          | 5003 4              |
| OBS                     | 0250   | 18        | 92 | 36        | 53 | 26                  | 23 |           |     |                          | 5003 4              |
| STD                     | 0300   | 17        | 87 | 36        | 44 | 26                  | 42 | 0         | 816 |                          | 4995 9              |
| OBS                     | 0300   | 17        | 87 | 36        | 44 | 26                  | 42 |           |     |                          | 4995 9              |
| STD                     | 0400   | 16        | 27 | 36        | 17 | 26                  | 60 | 0         | 980 |                          | 4984 6              |
| STD                     | 0500   | 14        | 16 | 35        | 86 | 26                  | 83 | 1         | 127 |                          | 4967 0              |
| OBS                     | 0500   | 14        | 16 | 35        | 86 | 26                  | 83 |           |     |                          | 4967 0              |
| STD                     | 0600   | 11        | 54 | 35        | 50 | 27                  | 08 | 1         | 253 |                          | 4942 0              |
| OBS                     | 0600   | 11        | 54 | 35        | 50 | 27                  | 08 |           |     |                          | 4942 0              |
| OBS                     | 0650   | 10        | 81 | 35        | 43 | 27                  | 16 |           |     |                          | 4936 0              |
| OBS                     | 0700   | 09        | 88 | 35        | 31 | 27                  | 23 |           |     |                          | 4927 2              |
| OBS                     | 0750   | 09        | 01 | 35        | 21 | 27                  | 30 |           |     |                          | 4919 0              |
| STD                     | 0800   | 08        | 40 | 35        | 18 | 27                  | 37 | 1         | 453 |                          | 4914 1              |
| OBS                     | 0800   | 08        | 40 | 35        | 18 | 27                  | 37 |           |     |                          | 4914 1              |
| STD                     | 1000   | 05        | 15 | 35        | 02 | 27                  | 69 | 1         | 592 |                          | 4882 3              |
| OBS                     | 1000   | 05        | 15 | 35        | 02 | 27                  | 69 |           |     |                          | 4882 3              |
| STD                     | 1200   | 04        | 43 | 34        | 99 | 27                  | 75 | 1         | 693 |                          | 4883 4              |
| OBS                     | 1300   | 04        | 16 | 34        | 98 | 27                  | 77 |           |     |                          | 4885 2              |
| STD                     | 1500   | 03        | 80 |           |    |                     |    |           |     |                          |                     |
| OBS                     | 1800   | 03        | 70 |           |    |                     |    |           |     |                          |                     |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |
| 31947                | 0053    | 05   | 27  | 1962 | 10   | 24       | 40 N | 077       | 35 W |
|                      |         |      |     |      |      |          |      | 1850      | 18   |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY °           | WET ° |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 03    | 09   |                | 14           | 25 2            | 22 8  |               | 02      | 8     | 1    | 10   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |    |    |                |    |       |                    |
|-------------------------|---------------------|------|----|----|----|----------------|----|-------|--------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S‰ |    | σ <sub>t</sub> |    | Σ ΔD  | σ <sub>im</sub> /1 |
|                         |                     | ↓    | ↓  | ↓  | ↓  | ↓              | ↓  |       |                    |
| STD                     | 0000                | 26   | 03 | 36 | 56 | 24             | 22 | 0 000 |                    |
| OBS                     | 0000                | 26   | 03 | 36 | 56 | 24             | 22 |       | 5049 0             |
| STD                     | 0010 †              | 25   | 92 | 36 | 57 | 24             | 26 | 0 037 | 5048 8             |
| STD                     | 0020 †              | 25   | 77 | 36 | 59 | 24             | 33 | 0 073 | 5048 3             |
| STD                     | 0030 †              | 25   | 58 | 36 | 60 | 24             | 39 | 0 109 | 5047 4             |
| OBS                     | 0040                | 25   | 35 | 36 | 62 | 24             | 48 |       | 5046 3             |
| STD                     | 0050                | 24   | 89 | 36 | 64 | 24             | 63 | 0 178 | 5043 4             |
| STD                     | 0075                | 24   | 25 | 36 | 70 | 24             | 87 | 0 259 | 5040 0             |
| OBS                     | 0075                | 24   | 25 | 36 | 70 | 24             | 87 |       | 5040 0             |
| STD                     | 0100                | 24   | 34 | 36 | 88 | 24             | 98 | 0 336 | 5042 7             |
| OBS                     | 0100                | 24   | 34 | 36 | 88 | 24             | 98 |       | 5042 7             |
| STD                     | 0150                | 24   | 07 | 36 | 94 | 25             | 11 | 0 484 | 5043 5             |
| OBS                     | 0150                | 24   | 07 | 36 | 94 | 25             | 11 |       | 5043 5             |
| OBS                     | 0175                | 23   | 28 | 36 | 89 | 25             | 30 |       | 5038 4             |
| STD                     | 0200                | 22   | 01 | 36 | 74 | 25             | 56 | 0 620 | 5028 7             |
| OBS                     | 0200                | 22   | 01 | 36 | 74 | 25             | 56 |       | 5028 7             |
| OBS                     | 0225                | 20   | 37 | 36 | 62 | 25             | 92 |       | 5015 5             |
| STD                     | 0250                | 19   | 23 | 36 | 54 | 26             | 16 | 0 732 | 5006 3             |
| OBS                     | 0250                | 19   | 23 | 36 | 54 | 26             | 16 |       | 5006 3             |
| STD                     | 0300                | 18   | 04 | 36 | 44 | 26             | 38 | 0 825 | 4997 5             |
| OBS                     | 0300                | 18   | 04 | 36 | 44 | 26             | 38 |       | 4997 5             |
| STD                     | 0400                | 16   | 68 | 36 | 22 | 26             | 54 | 0 995 | 4988 9             |
| STD                     | 0500                | 14   | 52 | 35 | 91 | 26             | 80 | 1 146 | 4971 0             |
| OBS                     | 0500                | 14   | 52 | 35 | 91 | 26             | 80 |       | 4971 0             |
| STD                     | 0600                | 11   | 56 | 35 | 51 | 27             | 09 | 1 274 | 4942 3             |
| OBS                     | 0600                | 11   | 56 | 35 | 51 | 27             | 09 |       | 4942 3             |
| OBS                     | 0650                | 10   | 88 | 35 | 44 | 27             | 16 |       | 4936 9             |
| OBS                     | 0700                | 09   | 94 | 35 | 33 | 27             | 24 |       | 4928 0             |
| OBS                     | 0750                | 08   | 96 | 35 | 24 | 27             | 33 |       | 4918 5             |
| STD                     | 0800                | 08   | 26 | 35 | 21 | 27             | 42 | 1 469 | 4912 5             |
| OBS                     | 0800                | 08   | 26 | 35 | 21 | 27             | 42 |       | 4912 5             |
| STD                     | 1000                | 05   | 13 | 35 | 08 | 27             | 74 | 1 599 | 4882 3             |
| OBS                     | 1000                | 05   | 13 | 35 | 08 | 27             | 74 |       | 4882 3             |
| STD                     | 1200                | 04   | 41 | 35 | 01 | 27             | 77 | 1 694 | 4883 2             |
| OBS                     | 1300                | 04   | 14 | 34 | 98 | 27             | 78 |       | 4884 9             |
| STD                     | 1500                | 03   | 78 | 34 | 98 | 27             | 81 | 1 828 | 4891 0             |
| OBS                     | 1800                | 03   | 70 | 34 | 97 | 27             | 81 |       | 4906 4             |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0054    | 05   | 27  | 1962 | 13   | 24 40 N  | 077 35 W  | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA. |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 16           | 26 4            | 23 3  |               | 01      | 8     | 1    | 10   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |                     |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|---------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | O <sub>2</sub> ml/l | V <sub>1</sub> |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  |       |                     |                |
| STD                     | 0000                | 25   | 98 | 36  | 54 | 24             | 22 | 0 000 |                     | 5048 6         |
| OBS                     | 0000                | 25   | 98 | 36  | 54 | 24             | 22 |       |                     | 5048 6         |
| STD                     | 0010 †              | 25   | 72 | 36  | 64 | 24             | 38 | 0 036 |                     | 5047 5         |
| STD                     | 0020 †              | 25   | 47 | 36  | 72 | 24             | 52 | 0 071 |                     | 5046 5         |
| STD                     | 0030 †              | 25   | 23 | 36  | 77 | 24             | 63 | 0 105 |                     | 5045 4         |
| OBS                     | 0040                | 25   | 01 | 36  | 80 | 24             | 72 |       |                     | 5044 4         |
| STD                     | 0050                | 24   | 73 | 36  | 74 | 24             | 76 | 0 171 |                     | 5042 5         |
| STD                     | 0075                | 24   | 32 | 36  | 73 | 24             | 87 | 0 250 |                     | 5040 6         |
| OBS                     | 0075                | 24   | 32 | 36  | 73 | 24             | 87 |       |                     | 5040 6         |
| STD                     | 0100                | 24   | 32 | 36  | 89 | 25             | 00 | 0 326 |                     | 5042 6         |
| OBS                     | 0100                | 24   | 32 | 36  | 89 | 25             | 00 |       |                     | 5042 6         |
| STD                     | 0150                | 23   | 74 | 36  | 84 | 25             | 13 | 0 474 |                     | 5040 5         |
| OBS                     | 0150                | 23   | 74 | 36  | 84 | 25             | 13 |       |                     | 5040 5         |
| OBS                     | 0175                | 23   | 24 | 36  | 91 | 25             | 33 |       |                     | 5038 1         |
| STD                     | 0200                | 21   | 87 | 36  | 71 | 25             | 57 | 0 609 |                     | 5027 4         |
| OBS                     | 0200                | 21   | 87 | 36  | 71 | 25             | 57 |       |                     | 5027 4         |
| OBS                     | 0225                | 20   | 59 | 36  | 63 | 25             | 86 |       |                     | 5017 4         |
| STD                     | 0250                | 19   | 24 | 36  | 55 | 26             | 16 | 0 721 |                     | 5006 4         |
| OBS                     | 0250                | 19   | 24 | 36  | 55 | 26             | 16 |       |                     | 5006 4         |
| STD                     | 0300                | 18   | 17 | 36  | 46 | 26             | 36 | 0 814 |                     | 4998 8         |
| OBS                     | 0300                | 18   | 17 | 36  | 46 | 26             | 36 |       |                     | 4998 8         |
| STD                     | 0400                | 17   | 50 | 36  | 42 | 26             | 50 | 0 986 |                     | 4997 6         |
| STD                     | 0500                | 15   | 28 | 36  | 10 | 26             | 77 | 1 142 |                     | 4979 7         |
| OBS                     | 0500                | 15   | 28 | 36  | 10 | 26             | 77 |       |                     | 4979 7         |
| STD                     | 0600                | 11   | 51 | 35  | 50 | 27             | 09 | 1 270 |                     | 4941 7         |
| OBS                     | 0600                | 11   | 51 | 35  | 50 | 27             | 09 |       |                     | 4941 7         |
| OBS                     | 0650                | 10   | 79 | 35  | 42 | 27             | 16 |       |                     | 4935 7         |
| OBS                     | 0700                | 10   | 00 | 35  | 33 | 27             | 23 |       |                     | 4928 7         |
| OBS                     | 0750                | 08   | 96 | 35  | 22 | 27             | 32 |       |                     | 4918 4         |
| STD                     | 0800                | 08   | 25 | 35  | 17 | 27             | 39 | 1 468 |                     | 4912 2         |
| OBS                     | 0800                | 08   | 25 | 35  | 17 | 27             | 39 |       |                     | 4912 2         |
| STD                     | 1000                | 05   | 13 | 35  | 03 | 27             | 71 | 1 605 |                     | 4882 1         |
| OBS                     | 1000                | 05   | 13 | 35  | 03 | 27             | 71 |       |                     | 4882 1         |
| STD                     | 1200                | 04   | 42 | 35  | 00 | 27             | 76 | 1 704 |                     | 4883 3         |
| OBS                     | 1300                | 04   | 16 | 34  | 99 | 27             | 78 |       |                     | 4885 2         |
| STD                     | 1500                | 03   | 81 | 34  | 98 | 27             | 81 | 1 840 |                     | 4891 4         |
| OBS                     | 1800                | 03   | 72 | 34  | 98 | 27             | 82 |       |                     | 4906 7         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0055    | 05   | 27  | 1962 | 16   | 24       | 40 N | 077 35 W  | 1850                          | 14                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |            | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|------------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY $\Psi$      | WET $\Psi$ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 15           | 26              | 7          | 23            | 3       | 8     | 1    | 08   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |            |    |                   |                     |        |
|-------------------------|---------------------|------|----|-----|----|------------|----|-------------------|---------------------|--------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | $\sigma_t$ |    | $\Sigma \Delta D$ | $\sigma_{\sigma t}$ | $\Psi$ |
| STD                     | 0000                | 26   | 28 | 36  | 56 | 24         | 14 | 0 000             |                     | 5050 9 |
| OBS                     | 0000                | 26   | 28 | 36  | 56 | 24         | 14 |                   |                     | 5050 9 |
| STD                     | 0010 †              | 26   | 00 | 36  | 64 | 24         | 29 | 0 037             |                     | 5049 6 |
| STD                     | 0020 †              | 25   | 72 | 36  | 71 | 24         | 43 | 0 073             |                     | 5048 3 |
| STD                     | 0030 †              | 25   | 45 | 36  | 76 | 24         | 55 | 0 108             |                     | 5047 0 |
| OBS                     | 0040                | 25   | 18 | 36  | 79 | 24         | 66 |                   |                     | 5045 6 |
| STD                     | 0050                | 24   | 82 | 36  | 78 | 24         | 76 | 0 174             |                     | 5043 4 |
| STD                     | 0075                | 24   | 30 | 36  | 77 | 24         | 91 | 0 252             |                     | 5040 6 |
| OBS                     | 0075                | 24   | 30 | 36  | 77 | 24         | 91 |                   |                     | 5040 6 |
| STD                     | 0100                | 24   | 34 | 36  | 91 | 25         | 00 | 0 329             |                     | 5042 8 |
| OBS                     | 0100                | 24   | 34 | 36  | 91 | 25         | 00 |                   |                     | 5042 8 |
| STD                     | 0150                | 23   | 83 | 36  | 86 | 25         | 12 | 0 476             |                     | 5041 3 |
| OBS                     | 0150                | 23   | 83 | 36  | 86 | 25         | 12 |                   |                     | 5041 3 |
| OBS                     | 0175                | 23   | 53 | 36  | 90 | 25         | 24 |                   |                     | 5040 4 |
| STD                     | 0200                | 22   | 08 | 36  | 74 | 25         | 54 | 0 613             |                     | 5029 3 |
| OBS                     | 0200                | 22   | 08 | 36  | 74 | 25         | 54 |                   |                     | 5029 3 |
| OBS                     | 0225                | 20   | 14 | 36  | 61 | 25         | 97 |                   |                     | 5013 4 |
| STD                     | 0250                | 19   | 13 | 36  | 55 | 26         | 19 | 0 724             |                     | 5005 4 |
| OBS                     | 0250                | 19   | 13 | 36  | 55 | 26         | 19 |                   |                     | 5005 4 |
| STD                     | 0300                | 18   | 03 | 36  | 46 | 26         | 40 | 0 816             |                     | 4997 5 |
| OBS                     | 0300                | 18   | 03 | 36  | 46 | 26         | 40 |                   |                     | 4997 5 |
| STD                     | 0400                | 16   | 38 | 36  | 21 | 26         | 61 | 0 981             |                     | 4985 8 |
| STD                     | 0500                | 14   | 25 | 35  | 90 | 26         | 85 | 1 128             |                     | 4968 1 |
| OBS                     | 0500                | 14   | 25 | 35  | 90 | 26         | 85 |                   |                     | 4968 1 |
| STD                     | 0600                | 11   | 63 | 35  | 53 | 27         | 09 | 1 252             |                     | 4943 2 |
| OBS                     | 0600                | 11   | 63 | 35  | 53 | 27         | 09 |                   |                     | 4943 2 |
| OBS                     | 0650                | 10   | 91 | 35  | 46 | 27         | 17 |                   |                     | 4937 3 |
| OBS                     | 0700                | 10   | 19 | 35  | 35 | 27         | 21 |                   |                     | 4931 1 |
| OBS                     | 0750                | 09   | 17 | 35  | 24 | 27         | 30 |                   |                     | 4921 1 |
| STD                     | 0800                | 08   | 37 | 35  | 19 | 27         | 39 | 1 451             |                     | 4913 8 |
| OBS                     | 0800                | 08   | 37 | 35  | 19 | 27         | 39 |                   |                     | 4913 8 |
| STD                     | 1000                | 05   | 28 | 35  | 03 | 27         | 69 | 1 590             |                     | 4884 1 |
| OBS                     | 1000                | 05   | 28 | 35  | 03 | 27         | 69 |                   |                     | 4884 1 |
| STD                     | 1200                | 04   | 60 | 34  | 99 | 27         | 73 | 1 694             |                     | 4885 7 |
| OBS                     | 1300                | 04   | 20 | 34  | 98 | 27         | 77 |                   |                     | 4885 7 |
| OBS                     | 1400                | 03   | 75 | 34  | 97 | 27         | 81 |                   |                     | 4885 0 |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |  |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|--|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |  |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |  |
| 31947                | 0056    | 05   | 27  | 1962 | 19   | 24 40' N | 077 35' W | 1850                          | 18                      |  |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 04    | 09   |                | 15           | 26 7            | 23 3  |               | 02      | 8     | 1    | 08   | 1    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |         |    |                     |    |           |     |                           |                     |
|-------------------------|---------------------|-----------|----|---------|----|---------------------|----|-----------|-----|---------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | Q <sub>2</sub> m l/h<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 26        | 47 | 36      | 54 | 24                  | 07 | 0         | 000 |                           | 5052 2              |
| OBS                     | 0000                | 26        | 47 | 36      | 54 | 24                  | 07 |           |     |                           | 5052 2              |
| STD                     | 0010 †              | 25        | 93 | 36      | 57 | 24                  | 26 | 0         | 038 |                           | 5048 9              |
| STD                     | 0020 †              | 25        | 47 | 36      | 60 | 24                  | 43 | 0         | 074 |                           | 5046 0              |
| STD                     | 0030 †              | 25        | 08 | 36      | 63 | 24                  | 57 | 0         | 108 |                           | 5043 7              |
| OBS                     | 0040                | 24        | 78 | 36      | 66 | 24                  | 68 |           |     |                           | 5042 1              |
| STD                     | 0050                | 24        | 59 | 36      | 67 | 24                  | 75 | 0         | 174 |                           | 5041 2              |
| STD                     | 0075                | 24        | 33 | 36      | 74 | 24                  | 88 | 0         | 254 |                           | 5040 8              |
| OBS                     | 0075                | 24        | 33 | 36      | 74 | 24                  | 88 |           |     |                           | 5040 8              |
| STD                     | 0100                | 24        | 36 | 36      | 88 | 24                  | 98 | 0         | 330 |                           | 5042 9              |
| OBS                     | 0100                | 24        | 36 | 36      | 88 | 24                  | 98 |           |     |                           | 5042 9              |
| STD                     | 0150                | 23        | 83 | 36      | 87 | 25                  | 13 | 0         | 479 |                           | 5041 3              |
| OBS                     | 0150                | 23        | 83 | 36      | 87 | 25                  | 13 |           |     |                           | 5041 3              |
| OBS                     | 0175                | 23        | 21 | 36      | 87 | 25                  | 31 |           |     |                           | 5037 7              |
| STD                     | 0200                | 21        | 92 | 36      | 74 | 25                  | 58 | 0         | 614 |                           | 5027 9              |
| OBS                     | 0200                | 21        | 92 | 36      | 74 | 25                  | 58 |           |     |                           | 5027 9              |
| OBS                     | 0225                | 19        | 76 | 36      | 62 | 26                  | 08 |           |     |                           | 5010 0              |
| STD                     | 0250                | 18        | 78 | 36      | 52 | 26                  | 26 | 0         | 723 |                           | 5002 0              |
| OBS                     | 0250                | 18        | 78 | 36      | 52 | 26                  | 26 |           |     |                           | 5002 0              |
| STD                     | 0300                | 17        | 80 | 36      | 44 | 26                  | 44 | 0         | 812 |                           | 4995 2              |
| OBS                     | 0300                | 17        | 80 | 36      | 44 | 26                  | 44 |           |     |                           | 4995 2              |
| STD                     | 0400                | 16        | 35 | 36      | 20 | 26                  | 61 | 0         | 975 |                           | 4985 5              |
| STD                     | 0500                | 14        | 25 | 35      | 90 | 26                  | 85 | 1         | 122 |                           | 4968 1              |
| OBS                     | 0500                | 14        | 25 | 35      | 90 | 26                  | 85 |           |     |                           | 4968 1              |
| STD                     | 0600                | 11        | 49 | 35      | 55 | 27                  | 13 | 1         | 244 |                           | 4941 7              |
| OBS                     | 0600                | 11        | 49 | 35      | 55 | 27                  | 13 |           |     |                           | 4941 7              |
| OBS                     | 0650                | 10        | 95 | 35      | 45 | 27                  | 15 |           |     |                           | 4937 7              |
| OBS                     | 0700                | 09        | 98 | 35      | 36 | 27                  | 26 |           |     |                           | 4928 6              |
| OBS                     | 0750                | 09        | 10 | 35      | 25 | 27                  | 32 |           |     |                           | 4920 3              |
| STD                     | 0800                | 08        | 25 | 35      | 21 | 27                  | 42 | 1         | 435 |                           | 4912 3              |
| OBS                     | 0800                | 08        | 25 | 35      | 21 | 27                  | 42 |           |     |                           | 4912 3              |
| STD                     | 1000                | 05        | 12 | 35      | 04 | 27                  | 71 | 1         | 568 |                           | 4882 0              |
| OBS                     | 1000                | 05        | 12 | 35      | 04 | 27                  | 71 |           |     |                           | 4882 0              |
| STD                     | 1200                | 04        | 43 | 35      | 00 | 27                  | 76 | 1         | 666 |                           | 4883 5              |
| OBS                     | 1300                | 04        | 17 | 34      | 99 | 27                  | 78 |           |     |                           | 4885 4              |
| STD                     | 1500                | 03        | 82 | 34      | 99 | 27                  | 82 | 1         | 801 |                           | 4891 6              |
| OBS                     | 1800                | 03        | 72 | 34      | 99 | 27                  | 83 |           |     |                           | 4906 8              |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |       |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |                               |                         |
| 31947                | 0057    | 06   | 14  | 1962 | 11   | 26       | 20' N | 073 03' W | 5075                          | 29                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 02    | 09   |                | 17           | 25              | 8     | 23            | 3       |       |      | 8    | 2    | 12    | 4    |      | 7     |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |          |     |                     |     |           |                          |                     |  |
|-------------------------|---------------------|-----------|----|----------|-----|---------------------|-----|-----------|--------------------------|---------------------|--|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S ‰<br>↓ |     | σ <sub>t</sub><br>↓ |     | Σ ΔD<br>↓ | Q <sub>σm</sub> 1/1<br>↓ | W <sub>t</sub><br>↓ |  |
| STD                     | 0000                | 26        | 58 | 36       | 78  | 24                  | 21  | 0 000     |                          | 5053 9              |  |
| OBS                     | 0000                | 26        | 58 | 36       | 78  | 24                  | 21  |           |                          | 5053 9              |  |
| OBS                     | 0008                | 26        | 61 | 36       | 73  | 24                  | 17  |           |                          | 5054 4              |  |
| STD                     | 0010                | 26        | 60 | 36       | 73  | 24                  | 17  | 0 037     |                          | 5054 4              |  |
| OBS                     | 0016                | 26        | 56 | 36       | 73  | 24                  | 18  |           |                          | 5054 4              |  |
| STD                     | 0020                | 26        | 16 | 36       | 72  | 24                  | 30  | 0 074     |                          | 5051 7              |  |
| OBS                     | 0024                | 25        | 80 | 36       | 71  | 24                  | 41  |           |                          | 5049 1              |  |
| STD                     | 0030                | 25        | 40 | 36       | 71  | 24                  | 53  | 0 110     |                          | 5046 5              |  |
| OBS                     | 0040                | 24        | 84 | 36       | 72  | 24                  | 71  |           |                          | 5042 8              |  |
| STD                     | 0050                | 24        | 54 | 36       | 73  | 24                  | 81  | 0 176     |                          | 5041 0              |  |
| OBS                     | 0060                | 24        | 17 | 36       | 73  | 24                  | 92  |           |                          | 5038 7              |  |
| STD                     | 0075                | 23        | 44 | 36       | 75  | 25                  | 15  | 0 251     |                          | 5033 7              |  |
| OBS                     | 0080                | 23        | 23 | 36       | 75  | 25                  | 21  |           |                          | 5032 3              |  |
| STD                     | 0100                | 22        | 68 | 36       | 74  | 25                  | 36  | 0 320     |                          | 5028 9              |  |
| OBS                     | 0120                | 22        | 05 | 36       | 72  | 25                  | 53  |           |                          | 5024 6              |  |
| STD                     | 0150                | 20        | 90 | 36       | 68  | 25                  | 82  | 0 442     |                          | 5016 3              |  |
| OBS                     | 0161                | 20        | 53 | 36       | 67  | 25                  | 91  |           |                          | 5013 6              |  |
| STD                     | 0200                | 19        | 53 | 36       | 62  | 26                  | 14  | 0 548     |                          | 5006 6              |  |
| OBS                     | 0202                |           |    | 36       | 62  |                     |     |           |                          |                     |  |
| OBS                     | 0244                | 18        | 70 | 36       | 54  | 26                  | 29  |           |                          | 5001 1              |  |
| STD                     | 0250                | 18        | 64 | 36       | 54  | 26                  | 31  | 0 642     |                          | 5000 8              |  |
| STD                     | 0300                | 18        | 21 | 36       | 49  | 26                  | 38  | 0 731     |                          | 4999 3              |  |
| OBS                     | 0329                | 17        | 98 | 36       | 47  | 26                  | 42  |           |                          | 4998 6              |  |
| → OBS                   | 0388                | 17        | 57 | 36       | 42  | 26                  | 48  |           |                          | 4997 7              |  |
| STD                     | 0400                | 17        | 50 | 36       | 40  | 26                  | 48  | 0 904     |                          | 4997 6              |  |
| OBS                     | 0415                | 17        | 38 | 36       | 38  | 26                  | 50  |           |                          | 4997 1              |  |
| → OBS                   | 0465                | 16        | 80 | 36       | 28  | 26                  | 56  |           |                          | 4993 8              |  |
| STD                     | 0500                | 16        | 34 | 36       | 21  | 26                  | 62  | 1 068     |                          | 4990 8              |  |
| OBS                     | 0503                | 16        | 29 | 36       | 20  | 26                  | 62  |           |                          | 4990 5              |  |
| STD                     | 0600                | 14        | 14 | 35       | 34  | 26                  | 82  | 1 218     |                          | 4972 1              |  |
| → OBS                   | 0624                | 13        | 47 | 35       | 76  | 26                  | 90  |           |                          | 4965 9              |  |
| OBS                     | 0685                | 11        | 50 | 35       | 70* | 27                  | 25* |           |                          |                     |  |
| OBS                     | 0784                | 09        | 95 | 35       | 31  | 27                  | 22  |           |                          | 4932 6              |  |
| STD                     | 0800                | 09        | 59 | 35       | 29  | 27                  | 27  | 1 457     |                          | 4929 1              |  |
| OBS                     | 0946                | 06        | 93 |          |     |                     |     |           |                          |                     |  |
| STD                     | 1000                | 06        | 42 | 35       | 13  | 27                  | 62  | 1 618     |                          | 4899 6              |  |
| OBS                     | 1190                | 05        | 01 | 35       | 03  | 27                  | 72  |           |                          | 4890 9              |  |
| STD                     | 1200                | 04        | 98 | 35       | 03  | 27                  | 72  | 1 733     |                          | 4891 0              |  |
| STD                     | 1500                | 04        | 15 | 35       | 00  | 27                  | 79  | 1 881     |                          | 4896 2              |  |
| OBS                     | 1608                | 03        | 94 | 34       | 99  | 27                  | 81  |           |                          | 4899 2              |  |
| STD                     | 2000                | 03        | 58 | 35       | 00  | 27                  | 85  | 2 105     |                          | 4916 0              |  |
| OBS                     | 2040                | 03        | 54 | 35       | 00  | 27                  | 85  |           |                          | 4917 7              |  |
| OBS                     | 2490                | 03        | 09 | 34       | 96  | 27                  | 87  |           |                          | 4936 5              |  |
| STD                     | 2500                | 03        | 08 | 34       | 96  | 27                  | 87  | 2 319     |                          | 4936 9              |  |
| OBS                     | 2950                | 02        | 76 | 34       | 94  | 27                  | 88  |           |                          | 4957 7              |  |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |       |           |       |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-------|-----------|-------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |       |           |       | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |       | LONGITUDE |       |                               |                         |
| 31947                | 0058    | 06   | 16  | 1962 | 11   | 24       | 50' N | 072       | 21' W | 5444                          | 06                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 10    | 14   |                | 16           | 26              | 5     | 24            | 1       | 02    | 8    | 1    | 15   | 4     |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |      |    |     |    |                |    |       |                     |                |
|-------------------------|---------------------|------|----|-----|----|----------------|----|-------|---------------------|----------------|
|                         | SAMPLE<br>DEPTH (M) | T °C |    | S ‰ |    | σ <sub>t</sub> |    | Σ ΔD  | O <sub>2</sub> ml/l | V <sub>t</sub> |
|                         |                     | ↓    | ↓  | ↓   | ↓  | ↓              | ↓  |       |                     |                |
| STD                     | 0000                | 26   | 25 | 36  | 73 | 24             | 28 | 0 000 |                     | 5051 3         |
| OBS                     | 0000                | 26   | 25 | 36  | 73 | 24             | 28 |       |                     | 5051 3         |
| OBS                     | 0006                | 26   | 27 | 36  | 72 | 24             | 27 |       |                     | 5051 7         |
| STD                     | 0010                | 26   | 29 | 36  | 72 | 24             | 26 | 0 037 |                     | 5052 1         |
| OBS                     | 0014                | 26   | 30 | 36  | 71 | 24             | 25 |       |                     | 5052 3         |
| STD                     | 0020                | 26   | 27 | 36  | 67 | 24             | 23 | 0 074 |                     | 5052 3         |
| OBS                     | 0021                | 26   | 24 | 36  | 66 | 24             | 23 |       |                     | 5052 1         |
| STD                     | 0030                | 25   | 40 | 36  | 69 | 24             | 52 | 0 109 |                     | 5046 4         |
| OBS                     | 0035                | 25   | 05 | 36  | 70 | 24             | 63 |       |                     | 5044 0         |
| STD                     | 0050                | 24   | 57 | 36  | 68 | 24             | 76 | 0 176 |                     | 5041 1         |
| OBS                     | 0053                | 24   | 49 | 36  | 68 | 24             | 79 |       |                     | 5040 6         |
| OBS                     | 0071                | 24   | 11 | 36  | 71 | 24             | 92 |       |                     | 5038 7         |
| STD                     | 0075                | 24   | 02 | 36  | 72 | 24             | 96 | 0 254 |                     | 5038 2         |
| STD                     | 0100                | 23   | 39 | 36  | 73 | 25             | 15 | 0 328 |                     | 5034 6         |
| OBS                     | 0108                | 23   | 16 | 36  | 74 | 25             | 23 |       |                     | 5033 2         |
| OBS                     | 0145                | 21   | 87 | 36  | 68 | 25             | 55 |       |                     | 5024 3         |
| STD                     | 0150                | 21   | 77 | 36  | 67 | 25             | 57 | 0 461 |                     | 5023 7         |
| OBS                     | 0183                | 21   | 15 | 36  | 64 | 25             | 72 |       |                     | 5020 1         |
| STD                     | 0200                | 20   | 90 | 36  | 64 | 25             | 79 | 0 581 |                     | 5018 8         |
| OBS                     | 0221                |      |    | 36  | 63 |                |    |       |                     |                |
| STD                     | 0250                | 20   | 17 | 36  | 63 | 25             | 98 | 0 691 |                     | 5015 1         |
| STD                     | 0300                | 19   | 46 | 36  | 61 | 26             | 15 | 0 794 |                     | 5011 3         |
| OBS                     | 0300                | 19   | 46 | 36  | 61 | 26             | 15 |       |                     | 5011 3         |
| OBS                     | 0382                | 18   | 33 | 36  | 51 | 26             | 36 |       |                     | 5004 9         |
| STD                     | 0400                | 18   | 24 | 36  | 50 | 26             | 38 | 0 983 |                     | 5005 0         |
| OBS                     | 0465                | 17   | 74 | 36  | 45 | 26             | 46 |       |                     | 5003 6         |
| STD                     | 0500                | 17   | 36 | 36  | 40 | 26             | 52 | 1 158 |                     | 5001 6         |
| STD                     | 0600                | 15   | 82 | 36  | 19 | 26             | 72 | 1 318 |                     | 4990 9         |
| OBS                     | 0640                | 15   | 02 | 36  | 07 | 26             | 81 |       |                     | 4984 4         |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0059    | 06   | 19  | 1962 | 04   | 23       | 53 N | 077 15 W  | 1353                          | 13                      |

| WIND  |      | ANEMO.<br>MGY. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|-----|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |     | COL.  | TRANS. |
| 03    | 12   |                | 17           | 25 5            | 22 8  |               | 02      | 9     | 2    | 22   | 1    |       |      | 7   |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |          |    |                  |    |           |                         |                  |
|-------------------------|---------------------|-----------|----|----------|----|------------------|----|-----------|-------------------------|------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S ‰<br>↓ |    | σ <sub>t</sub> ↓ |    | Σ ΔD<br>↓ | Q <sub>0</sub> m/s<br>↓ | V <sub>t</sub> ↓ |
| STD                     | 0000                | 27        | 30 | 36       | 56 | 23               | 82 | 0 000     |                         | 5058 3           |
| OBS                     | 0000                | 27        | 30 | 36       | 56 | 23               | 82 |           |                         | 5058 3           |
| STD                     | 0010 †              | 27        | 07 | 36       | 66 | 23               | 97 | 0 040     |                         | 5057 6           |
| STD                     | 0020 †              | 26        | 79 | 36       | 74 | 24               | 12 | 0 079     |                         | 5056 4           |
| STD                     | 0030 †              | 26        | 47 | 36       | 80 | 24               | 26 | 0 117     |                         | 5054 8           |
| OBS                     | 0038                | 26        | 18 | 36       | 83 | 24               | 38 |           |                         | 5053 2           |
| STD                     | 0050                | 25        | 47 | 36       | 83 | 24               | 60 | 0 187     |                         | 5048 5           |
| OBS                     | 0072                | 24        | 63 | 36       | 82 | 24               | 85 |           |                         | 5043 2           |
| STD                     | 0075                | 24        | 59 | 36       | 83 | 24               | 87 | 0 268     |                         | 5043 1           |
| OBS                     | 0096                | 24        | 37 | 36       | 89 | 24               | 98 |           |                         | 5042 8           |
| STD                     | 0100                | 24        | 37 | 36       | 90 | 24               | 99 | 0 345     |                         | 5043 0           |
| OBS                     | 0145                | 24        | 11 | 36       | 98 | 25               | 13 |           |                         | 5043 7           |
| STD                     | 0150                | 24        | 09 | 36       | 98 | 25               | 13 | 0 493     |                         | 5043 8           |
| OBS                     | 0170                | 23        | 77 | 36       | 97 | 25               | 22 |           |                         | 5042 3           |
| OBS                     | 0194                | 22        | 90 | 36       | 89 | 25               | 41 |           |                         | 5036 3           |
| STD                     | 0200                | 22        | 43 | 36       | 84 | 25               | 51 | 0 629     |                         | 5032 6           |
| OBS                     | 0218                | 21        | 18 | 36       | 72 | 25               | 77 |           |                         | 5022 5           |
| OBS                     | 0242                | 19        | 90 | 36       | 61 | 26               | 03 |           |                         | 5012 2           |
| STD                     | 0250                | 19        | 64 | 36       | 59 | 26               | 09 | 0 744     |                         | 5010 2           |
| OBS                     | 0291                | 18        | 42 | 36       | 49 | 26               | 32 |           |                         | 5000 8           |
| STD                     | 0300                | 18        | 29 | 36       | 47 | 26               | 34 | 0 840     |                         | 5000 0           |
| STD                     | 0400                | 16        | 64 | 36       | 23 | 26               | 56 | 1 010     |                         | 4988 5           |
| OBS                     | 0486                | 14        | 94 | 35       | 99 | 26               | 77 |           |                         | 4974 9           |
| STD                     | 0500                | 14        | 63 | 35       | 94 | 26               | 80 | 1 161     |                         | 4972 3           |
| OBS                     | 0584                | 12        | 68 | 35       | 67 | 26               | 99 |           |                         | 4954 7           |
| STD                     | 0600                | 12        | 25 | 35       | 61 | 27               | 03 | 1 291     |                         | 4950 5           |
| OBS                     | 0633                | 11        | 49 | 35       | 51 | 27               | 10 |           |                         | 4943 3           |
| OBS                     | 0682                | 10        | 64 | 35       | 42 | 27               | 19 |           |                         | 4935 7           |
| OBS                     | 0731                | 09        | 57 | 35       | 32 | 27               | 29 |           |                         | 4925 2           |
| OBS                     | 0781                | 08        | 78 | 35       | 23 | 27               | 35 |           |                         | 4918 0           |
| STD                     | 0800                | 08        | 34 | 35       | 21 | 27               | 41 | 1 494     |                         | 4913 5           |
| OBS                     | 0978                | 05        | 46 | 35       | 05 | 27               | 68 |           |                         | 4885 4           |
| STD                     | 1000                | 05        | 33 | 35       | 04 | 27               | 69 | 1 631     |                         | 4884 8           |
| OBS                     | 1127                | 04        | 71 | 35       | 02 | 27               | 75 |           |                         | 4883 4           |
| STD                     | 1200                | 04        | 47 | 35       | 02 | 27               | 77 | 1 731     |                         | 4884 1           |
| OBS                     | 1277                | 04        | 30 | 35       | 02 | 27               | 79 |           |                         | 4886 0           |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |                               |                         |
| 31947                | 0060    | 06   | 20  | 1962 | 14   | 24       | 31 N | 077 30 W  | 1637                          | 16                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 05    | 17   |                | 15           | 27 4            | 24 6  |               | 02      | 9     | 1    | 17   | 2    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |        |           |    |           |    |                     |    |           |     |                          |  |                     |   |
|-------------------------|--------|-----------|----|-----------|----|---------------------|----|-----------|-----|--------------------------|--|---------------------|---|
| SAMPLE<br>DEPTH (M)     |        | T °C<br>↓ |    | S‰ O<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ |  | V <sub>t</sub><br>↓ |   |
| STD                     | 0000   | 26        | 57 | 36        | 42 | 23                  | 95 | 0         | 000 |                          |  | 5052                | 5 |
| OBS                     | 0000   | 26        | 57 | 36        | 42 | 23                  | 95 |           |     |                          |  | 5052                | 5 |
| STD                     | 0010 † | 26        | 54 | 36        | 46 | 23                  | 99 | 0         | 040 |                          |  | 5053                | 0 |
| STD                     | 0020 † | 26        | 45 | 36        | 51 | 24                  | 05 | 0         | 079 |                          |  | 5053                | 0 |
| STD                     | 0030 † | 26        | 31 | 36        | 56 | 24                  | 13 | 0         | 117 |                          |  | 5052                | 7 |
| OBS                     | 0040   | 26        | 10 | 36        | 61 | 24                  | 24 |           |     |                          |  | 5051                | 9 |
| STD                     | 0050   | 25        | 71 | 36        | 70 | 24                  | 43 | 0         | 190 |                          |  | 5049                | 8 |
| STD                     | 0075   | 24        | 91 | 36        | 82 | 24                  | 76 | 0         | 275 |                          |  | 5045                | 5 |
| OBS                     | 0075   | 24        | 91 | 36        | 82 | 24                  | 76 |           |     |                          |  | 5045                | 5 |
| STD                     | 0100   | 24        | 34 | 36        | 79 | 24                  | 91 | 0         | 354 |                          |  | 5042                | 4 |
| OBS                     | 0100   | 24        | 34 | 36        | 79 | 24                  | 91 |           |     |                          |  | 5042                | 4 |
| STD                     | 0150   | 24        | 00 | 36        | 92 | 25                  | 11 | 0         | 504 |                          |  | 5042                | 9 |
| OBS                     | 0150   | 24        | 00 | 36        | 92 | 25                  | 11 |           |     |                          |  | 5042                | 9 |
| OBS                     | 0175   | 23        | 14 | 36        | 94 | 25                  | 38 |           |     |                          |  | 5037                | 4 |
| STD                     | 0200   | 22        | 22 | 36        | 89 | 25                  | 61 | 0         | 639 |                          |  | 5031                | 0 |
| OBS                     | 0200   | 22        | 22 | 36        | 89 | 25                  | 61 |           |     |                          |  | 5031                | 0 |
| OBS                     | 0225   | 20        | 25 | 36        | 63 | 25                  | 96 |           |     |                          |  | 5014                | 4 |
| STD                     | 0250   | 19        | 26 | 36        | 57 | 26                  | 17 | 0         | 749 |                          |  | 5006                | 6 |
| OBS                     | 0250   | 19        | 26 | 36        | 57 | 26                  | 17 |           |     |                          |  | 5006                | 6 |
| STD                     | 0300   | 18        | 02 | 36        | 46 | 26                  | 40 | 0         | 841 |                          |  | 4997                | 4 |
| OBS                     | 0300   | 18        | 02 | 36        | 46 | 26                  | 40 |           |     |                          |  | 4997                | 4 |
| STD                     | 0400   | 16        | 64 | 36        | 26 | 26                  | 58 | 1         | 007 |                          |  | 4988                | 6 |
| STD                     | 0500   | 14        | 67 | 35        | 98 | 26                  | 82 | 1         | 156 |                          |  | 4972                | 8 |
| OBS                     | 0500   | 14        | 67 | 35        | 98 | 26                  | 82 |           |     |                          |  | 4972                | 8 |
| STD                     | 0600   | 12        | 10 | 35        | 61 | 27                  | 06 | 1         | 284 |                          |  | 4948                | 8 |
| OBS                     | 0600   | 12        | 10 | 35        | 61 | 27                  | 06 |           |     |                          |  | 4948                | 8 |
| OBS                     | 0650   | 10        | 98 | 35        | 46 | 27                  | 16 |           |     |                          |  | 4938                | 1 |
| OBS                     | 0700   | 09        | 94 | 35        | 33 | 27                  | 24 |           |     |                          |  | 4928                | 0 |
| OBS                     | 0750   | 09        | 01 | 35        | 28 | 27                  | 36 |           |     |                          |  | 4919                | 3 |
| STD                     | 0800   | 07        | 86 | 35        | 23 | 27                  | 50 | 1         | 474 |                          |  | 4907                | 6 |
| OBS                     | 0800   | 07        | 86 | 35        | 23 | 27                  | 50 |           |     |                          |  | 4907                | 6 |
| STD                     | 1000   | 05        | 03 | 35        | 04 | 27                  | 72 | 1         | 599 |                          |  | 4880                | 8 |
| OBS                     | 1000   | 05        | 03 | 35        | 04 | 27                  | 72 |           |     |                          |  | 4880                | 8 |
| STD                     | 1200   | 04        | 46 | 35        | 01 | 27                  | 77 | 1         | 695 |                          |  | 4883                | 9 |
| OBS                     | 1300   | 04        | 24 | 35        | 00 | 27                  | 78 |           |     |                          |  | 4886                | 4 |
| STD                     | 1500   | 03        | 95 | 34        | 99 | 27                  | 81 | 1         | 833 |                          |  | 4893                | 4 |
| OBS                     | 1600   | 03        | 88 | 34        | 99 | 27                  | 81 |           |     |                          |  | 4897                | 9 |

| SURFACE OBSERVATIONS |         |      |     |      |      |          |           |                               |                         |
|----------------------|---------|------|-----|------|------|----------|-----------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |           | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE | LONGITUDE |                               |                         |
| 31947                | 0061    | 06   | 21  | 1962 | 10   | 24 15 N  | 077 21 W  | 1426                          | 13                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 08    | 16   |                | 15           | 26 7            | 23 2  |               | 02      | 3     | 3    | 16   | 3    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |                     |           |    |          |    |                     |    |           |                          |                     |
|-------------------------|---------------------|-----------|----|----------|----|---------------------|----|-----------|--------------------------|---------------------|
|                         | SAMPLE<br>DEPTH (M) | T °C<br>↓ |    | S ‰<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ | Q <sub>10</sub> l/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000                | 26        | 62 | 36       | 36 | 23                  | 88 | 0 000     |                          | 5052 7              |
| OBS                     | 0000                | 26        | 62 | 36       | 36 | 23                  | 88 |           |                          | 5052 7              |
| STD                     | 0010 †              | 26        | 59 | 36       | 56 | 24                  | 04 | 0 040     |                          | 5053 7              |
| STD                     | 0020 †              | 26        | 57 | 36       | 73 | 24                  | 18 | 0 078     |                          | 5054 7              |
| STD                     | 0030 †              | 26        | 54 | 36       | 85 | 24                  | 28 | 0 115     |                          | 5055 5              |
| OBS                     | 0040                | 26        | 52 | 36       | 94 | 24                  | 35 |           |                          | 5056 2              |
| STD                     | 0050                | 25        | 83 | 36       | 94 | 24                  | 57 | 0 185     |                          | 5051 6              |
| STD                     | 0075                | 24        | 67 | 36       | 93 | 24                  | 92 | 0 266     |                          | 5044 1              |
| OBS                     | 0075                | 24        | 67 | 36       | 93 | 24                  | 92 |           |                          | 5044 1              |
| STD                     | 0100                | 24        | 32 | 36       | 84 | 24                  | 96 | 0 343     |                          | 5042 4              |
| OBS                     | 0100                | 24        | 32 | 36       | 84 | 24                  | 96 |           |                          | 5042 4              |
| STD                     | 0150                | 24        | 01 | 36       | 96 | 25                  | 14 | 0 491     |                          | 5043 1              |
| OBS                     | 0150                | 24        | 01 | 36       | 96 | 25                  | 14 |           |                          | 5043 1              |
| OBS                     | 0175                | 23        | 29 | 36       | 93 | 25                  | 33 |           |                          | 5038 6              |
| STD                     | 0200                | 21        | 49 | 36       | 77 | 25                  | 72 | 0 623     |                          | 5024 4              |
| OBS                     | 0200                | 21        | 49 | 36       | 77 | 25                  | 72 |           |                          | 5024 4              |
| OBS                     | 0225                | 20        | 02 | 36       | 63 | 26                  | 02 |           |                          | 5012 4              |
| STD                     | 0250                | 19        | 06 | 36       | 55 | 26                  | 21 | 0 729     |                          | 5004 7              |
| OBS                     | 0250                | 19        | 06 | 36       | 55 | 26                  | 21 |           |                          | 5004 7              |
| STD                     | 0300                | 18        | 14 | 36       | 46 | 26                  | 37 | 0 821     |                          | 4998 5              |
| OBS                     | 0300                | 18        | 14 | 36       | 46 | 26                  | 37 |           |                          | 4998 5              |
| STD                     | 0400                | 16        | 65 | 36       | 24 | 26                  | 57 | 0 990     |                          | 4988 6              |
| STD                     | 0500                | 14        | 52 | 35       | 94 | 26                  | 82 | 1 140     |                          | 4971 1              |
| OBS                     | 0500                | 14        | 52 | 35       | 94 | 26                  | 82 |           |                          | 4971 1              |
| STD                     | 0600                | 11        | 74 | 35       | 55 | 27                  | 08 | 1 266     |                          | 4944 5              |
| OBS                     | 0600                | 11        | 74 | 35       | 55 | 27                  | 08 |           |                          | 4944 5              |
| OBS                     | 0650                | 10        | 87 | 35       | 45 | 27                  | 17 |           |                          | 4936 8              |
| OBS                     | 0700                | 09        | 93 | 35       | 33 | 27                  | 24 |           |                          | 4927 9              |
| OBS                     | 0750                | 09        | 03 | 35       | 25 | 27                  | 33 |           |                          | 4919 4              |
| STD                     | 0800                | 07        | 80 | 35       | 17 | 27                  | 46 | 1 457     |                          | 4906 5              |
| OBS                     | 0800                | 07        | 80 | 35       | 17 | 27                  | 46 |           |                          | 4906 5              |
| STD                     | 1000                | 05        | 16 | 35       | 03 | 27                  | 70 | 1 587     |                          | 4882 5              |
| OBS                     | 1000                | 05        | 16 | 35       | 03 | 27                  | 70 |           |                          | 4882 5              |
| STD                     | 1200                | 04        | 44 | 35       | 01 | 27                  | 77 | 1 686     |                          | 4883 7              |
| OBS                     | 1200                | 04        | 44 | 35       | 01 | 27                  | 77 |           |                          | 4883 7              |
| OBS                     | 1300                | 04        | 28 | 35       | 00 | 27                  | 78 |           |                          | 4886 9              |



| SURFACE OBSERVATIONS |         |      |     |      |      |          |      |           |      |                               |                         |
|----------------------|---------|------|-----|------|------|----------|------|-----------|------|-------------------------------|-------------------------|
| NODC<br>REF.<br>NO.  | STATION | DATE |     |      |      | POSITION |      |           |      | SONIC<br>DEPTH<br>UNCORRECTED | MAX.<br>SAMPLE<br>DEPTH |
|                      |         | MO.  | DAY | YEAR | HOUR | LATITUDE |      | LONGITUDE |      |                               |                         |
| 31947                | 0062    | 06   | 23  | 1962 | 06   | 23       | 40 N | 076       | 56 W | 1298                          | 09                      |

| WIND  |      | ANEMO.<br>HGT. | AIR<br>PRESS | AIR TEMPERATURE |       | HUMID-<br>ITY | WEATHER | CLOUD |      | SEA  |      | SWELL |      | VIS. | WATER |        |
|-------|------|----------------|--------------|-----------------|-------|---------------|---------|-------|------|------|------|-------|------|------|-------|--------|
| SPEED | DIR. |                |              | DRY ↓           | WET ↓ |               |         | TYPE  | AMT. | DIR. | AMT. | DIR.  | AMT. |      | COL.  | TRANS. |
| 06    | 09   |                | 17           | 26 4            | 24 2  |               | 01      | 8     | 1    | 09   | 3    |       |      | 7    |       |        |

| SUBSURFACE OBSERVATIONS |      |           |    |           |    |                     |    |           |     |                          |                     |
|-------------------------|------|-----------|----|-----------|----|---------------------|----|-----------|-----|--------------------------|---------------------|
| SAMPLE<br>DEPTH (M)     |      | T °C<br>↓ |    | S‰ O<br>↓ |    | σ <sub>t</sub><br>↓ |    | Σ ΔD<br>↓ |     | O <sub>2</sub> ml/l<br>↓ | V <sub>t</sub><br>↓ |
| STD                     | 0000 | 27        | 38 | 36        | 72 | 23                  | 91 | 0         | 000 |                          | 5059 5              |
| OBS                     | 0000 | 27        | 38 | 36        | 72 | 23                  | 91 |           |     |                          | 5059 5              |
| STD                     | 0010 | 26        | 70 | 36        | 79 | 24                  | 18 | 0         | 039 |                          | 5055 3              |
| STD                     | 0020 | 26        | 09 | 36        | 84 | 24                  | 41 | 0         | 075 |                          | 5051 6              |
| OBS                     | 0028 | 25        | 67 | 36        | 87 | 24                  | 57 |           |     |                          | 5049 0              |
| STD                     | 0030 | 25        | 56 | 36        | 87 | 24                  | 60 | 0         | 110 |                          | 5048 3              |
| STD                     | 0050 | 24        | 76 | 36        | 91 | 24                  | 88 | 0         | 174 |                          | 5043 4              |
| OBS                     | 0053 | 24        | 69 | 36        | 91 | 24                  | 90 |           |     |                          | 5043 0              |
| OBS                     | 0070 | 24        | 49 | 36        | 93 | 24                  | 97 |           |     |                          | 5042 4              |
| STD                     | 0075 | 24        | 45 | 36        | 93 | 24                  | 99 | 0         | 251 |                          | 5042 4              |
| STD                     | 0100 | 24        | 30 | 36        | 93 | 25                  | 03 | 0         | 326 |                          | 5042 6              |
| OBS                     | 0105 | 24        | 28 | 36        | 93 | 25                  | 04 |           |     |                          | 5042 7              |
| OBS                     | 0122 | 24        | 22 | 36        | 95 | 25                  | 07 |           |     |                          | 5043 2              |
| OBS                     | 0140 | 24        | 11 | 36        | 95 | 25                  | 10 |           |     |                          | 5043 3              |
| STD                     | 0150 | 24        | 07 | 36        | 97 | 25                  | 13 | 0         | 473 |                          | 5043 6              |
| OBS                     | 0157 | 23        | 95 | 36        | 98 | 25                  | 17 |           |     |                          | 5043 1              |
| OBS                     | 0174 | 23        | 34 | 36        | 94 | 25                  | 32 |           |     |                          | 5039 0              |
| STD                     | 0200 | 20        | 85 | 36        | 71 | 25                  | 85 | 0         | 601 |                          | 5018 7              |
| OBS                     | 0208 | 20        | 21 | 36        | 65 | 25                  | 98 |           |     |                          | 5013 2              |
| STD                     | 0250 | 19        | 48 | 36        | 60 | 26                  | 14 | 0         | 706 |                          | 5008 8              |
| STD                     | 0300 | 18        | 54 | 36        | 51 | 26                  | 31 | 0         | 801 |                          | 5002 5              |
| OBS                     | 0336 | 17        | 82 | 36        | 43 | 26                  | 43 |           |     |                          | 4997 3              |
| OBS                     | 0399 | 16        | 46 | 36        | 24 | 26                  | 61 |           |     |                          | 4986 7              |
| STD                     | 0400 | 16        | 44 | 36        | 24 | 26                  | 62 | 0         | 971 |                          | 4986 6              |
| OBS                     | 0430 | 15        | 98 | 36        | 19 | 26                  | 68 |           |     |                          | 4983 4              |
| OBS                     | 0462 | 15        | 59 | 36        | 13 | 26                  | 73 |           |     |                          | 4980 9              |
| OBS                     | 0494 | 14        | 59 | 35        | 97 | 26                  | 83 |           |     |                          | 4971 6              |
| STD                     | 0500 | 14        | 44 | 35        | 94 | 26                  | 84 | 1         | 117 |                          | 4970 3              |
| OBS                     | 0528 | 13        | 74 | 35        | 83 | 26                  | 90 |           |     |                          | 4963 9              |
| STD                     | 0600 | 11        | 67 | 35        | 56 | 27                  | 11 | 1         | 241 |                          | 4943 8              |
| OBS                     | 0672 | 10        | 18 | 35        | 38 | 27                  | 24 |           |     |                          | 4929 6              |
| OBS                     | 0753 | 09        | 19 | 35        | 27 | 27                  | 32 |           |     |                          | 4921 6              |
| STD                     | 0800 | 08        | 46 | 35        | 21 | 27                  | 39 | 1         | 438 |                          | 4915 0              |
| OBS                     | 0931 | 05        | 83 | 35        | 08 | 27                  | 66 |           |     |                          | 4887 9              |